

Rotavirus power calculations

Simulation study design

$A :=$ 2-arm randomized trial.

- $N_V = 4200$ in the vaccine group ($A = 1$).
- $N_P = 3000$ in the placebo group ($A = 0$).

$S :=$ the immune response marker of interest measured at month 3 (observed).

- $S_1 :=$ the potential outcome of S if assigned to the vaccine arm ($A = 1$).
- $S_0 :=$ the potential outcome of S if assigned to the placebo arm ($A = 0$), not used in this analysis.

$W :=$ the baseline predictor

- $(W, S_1) \sim$ bivariate normal with $\text{var}(W) = \text{var}(S_1) = 1$ and $\rho = \text{cor}(W, S_1) = 0.25, 0.5,$ 0.75.

$Y :=$ occurrence of the rotavirus disease by 2 years post enrollment (i.e. after a 1.75-year follow-up period after S is measured at month 3).

Ideal population for inference is subjects at-risk for $Y = 1$ at month 3. (i.e., did not experience the primary rotavirus disease endpoint by month 3).

Practically, the implementation of the method would only include subjects who are observed to attend the month 3 visit without occurrence of the rotavirus by month 3.

Marginal disease rate post marker measurement (from month 3 to month 24):

- $P(Y = 1|A = 0) = 0.04 \times (1.75/2)$ for the placebo group.
- $P(Y = 1|A = 1) = 0.01 \times (1.75/2)$ for the vaccine group (75% vaccine efficacy(VE)).

Case-cohort sampling design for measuring S :

- S measured in all $A = 1$ subjects with $Y = 1$ observed,
- S also measured in a simple random sample of all $A = 1$ subjects. (sampling rate = 25%, 50%, 100%)

For placebo recipients $A = 0$ who complete follow-up with $Y = 0$, cross-over 25%,50%,100% to receive the vaccine and have S measured 3 months after the cross-over. This is used only for filling in $S = S_1$, and we assume that no crossed-over subjects experience the primary rotavirus endpoint between month 24 and month 27.

Hypothesis of interest is

- Null $H_0 : VE_s = VE$ (i.e., no modification of VE by the marker S_1).
- Alternative $H_1 : VE_s \neq VE$ (some effect modification).

Generation of Y : (with marginals kept)

- Null case: Y generated with W and S_1 .
- Alternative case: Y generated with W alone.

The above set-up gives 54 scenarios:

- $\rho = (0.25, 0.5, 0.75) \times \text{sampling rate} = (25\%, 50\%, 100\%) \times \text{cross-over fraction} = (25\%, 50\%, 100\%) \times \text{hypothesis} = (\text{null, alternative})$.

Simulation results

Results on all 54 scenarios

Alternative case for $\text{cor}(S_1, W) = 0.25$, crossover rate=0.25, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwidth	Smooth.Truth	Truth
-1.333	6.549	-4.303	0.8	-1.559	-1.598
-1.415	2.319	-4.391	0.8	-1.597	-1.689
-1.496	4.405	-4.472	0.8	-1.600	-1.779
-1.610	2.222	-4.551	0.8	-1.615	-1.866
-1.558	3.608	-4.620	0.8	-1.691	-1.956
-1.616	2.561	-4.687	0.8	-1.865	-2.050
-1.712	2.228	-4.744	0.8	-1.821	-2.138
-1.823	2.450	-4.795	0.8	-1.830	-2.228

-1.829	10.552	-4.838	0.8	-1.996	-2.317
-1.813	20.131	-4.884	0.8	-2.005	-2.412
-1.986	11.132	-4.932	0.8	-2.191	-2.496

Null case for $\text{cor}(S1, W) = 0.25$, crossover rate=0.25, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.290	2.315	-4.194	0.8	-1.456	-1.401
-1.262	4.228	-4.255	0.8	-1.417	-1.403
-1.312	6.707	-4.310	0.8	-1.314	-1.405
-1.340	1.468	-4.363	0.8	-1.508	-1.407
-1.248	2.413	-4.405	0.8	-1.394	-1.409
-1.215	3.893	-4.442	0.8	-1.433	-1.411
-1.210	2.443	-4.481	0.8	-1.379	-1.413
-1.271	4.204	-4.505	0.8	-1.404	-1.414
-1.382	2.571	-4.522	0.8	-1.407	-1.415
-1.407	2.776	-4.540	0.8	-1.474	-1.417
-1.456	2.463	-4.547	0.8	-1.526	-1.418

Alternative case for $\text{cor}(S1, W) = 0.25$, crossover rate=0.25, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.476	1.725	-4.303	0.8	-1.578	-1.597
-1.520	1.146	-4.389	0.8	-1.667	-1.686
-1.567	1.454	-4.472	0.8	-1.707	-1.777
-1.620	0.977	-4.553	0.8	-1.719	-1.867
-1.685	1.165	-4.624	0.8	-1.714	-1.958
-1.687	1.914	-4.683	0.8	-1.799	-2.052
-1.825	1.277	-4.742	0.8	-1.964	-2.139

-1.881	1.191	-4.797	0.8	-1.953	-2.229
-1.896	3.296	-4.864	0.8	-2.062	-2.320
-1.916	1.780	-4.898	0.8	-1.972	-2.412
-1.978	2.765	-4.941	0.8	-2.041	-2.501

Null case for $\text{cor}(S1, W) = 0.25$, crossover rate=0.25, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Sample Size
-1.306	0.997	-4.194	0.8	-1.418	-1.401	1000
-1.327	1.671	-4.256	0.8	-1.406	-1.403	1000
-1.308	1.681	-4.311	0.8	-1.379	-1.405	1000
-1.297	2.340	-4.364	0.8	-1.358	-1.407	1000
-1.316	6.026	-4.404	0.8	-1.442	-1.409	1000
-1.392	2.611	-4.444	0.8	-1.444	-1.411	1000
-1.377	3.251	-4.477	0.8	-1.356	-1.413	1000
-1.426	1.571	-4.505	0.8	-1.536	-1.414	1000
-1.389	8.854	-4.523	0.8	-1.429	-1.416	1000
-1.497	2.329	-4.541	0.8	-1.534	-1.417	1000
-1.388	5.215	-4.550	0.8	-1.253	-1.418	1000

Alternative case for $\text{cor}(S1, W) = 0.25$, crossover rate=0.25, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.436	3.600	-4.305	0.8	-1.505	-1.598
-1.504	1.328	-4.390	0.8	-1.662	-1.690
-1.610	1.684	-4.473	0.8	-1.615	-1.779
-1.666	2.073	-4.556	0.8	-1.544	-1.866
-1.678	1.067	-4.622	0.8	-1.769	-1.957
-1.712	1.215	-4.686	0.8	-1.665	-2.050

-1.791	1.470	-4.744	0.8	-1.851	-2.139
-1.732	10.357	-4.800	0.8	-1.871	-2.230
-1.981	1.632	-4.854	0.8	-1.981	-2.319
-1.979	1.857	-4.894	0.8	-2.068	-2.412
-1.965	1.982	-4.948	0.8	-2.093	-2.501

Null case for $\text{cor}(S1, W)=0.25$, crossover rate=0.25, samp

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.229	1.332	-4.194	0.8	-1.398	-1.401
-1.263	1.242	-4.256	0.8	-1.317	-1.403
-1.274	3.074	-4.313	0.8	-1.356	-1.405
-1.303	1.165	-4.379	0.8	-1.398	-1.407
-1.267	2.652	-4.408	0.8	-1.336	-1.409
-1.399	1.884	-4.448	0.8	-1.397	-1.411
-1.468	1.985	-4.486	0.8	-1.519	-1.413
-1.451	1.110	-4.507	0.8	-1.410	-1.414
-1.439	1.278	-4.529	0.8	-1.397	-1.416
-1.395	7.109	-4.542	0.8	-1.485	-1.417
-1.416	3.161	-4.556	0.8	-1.349	-1.418

Alternative case for $\text{cor}(S1, W)=0.25$, crossover rate=0.5, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.446	1.159	-4.303	0.8	-1.532	-1.596
-1.476	1.348	-4.391	0.8	-1.577	-1.687
-1.469	5.682	-4.473	0.8	-1.627	-1.778
-1.508	1.765	-4.547	0.8	-1.670	-1.866
-1.512	3.312	-4.621	0.8	-1.815	-1.956

-1.650	2.439	-4.685	0.8	-1.784	-2.048
-1.695	1.401	-4.742	0.8	-1.904	-2.140
-1.797	10.291	-4.792	0.8	-1.843	-2.228
-1.817	3.839	-4.851	0.8	-1.927	-2.319
-1.798	4.132	-4.897	0.8	-2.095	-2.409
-1.919	1.978	-4.925	0.8	-2.022	-2.498

Null case for $\text{cor}(S1, W) = 0.25$, crossover rate=0.5, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.446	1.159	-4.303	0.8	-1.532	-1.401
-1.476	1.348	-4.391	0.8	-1.577	-1.403
-1.469	5.682	-4.473	0.8	-1.627	-1.405
-1.508	1.765	-4.547	0.8	-1.670	-1.407
-1.512	3.312	-4.621	0.8	-1.815	-1.409
-1.650	2.439	-4.685	0.8	-1.784	-1.411
-1.695	1.401	-4.742	0.8	-1.904	-1.413
-1.797	10.291	-4.792	0.8	-1.843	-1.414
-1.817	3.839	-4.851	0.8	-1.927	-1.416
-1.798	4.132	-4.897	0.8	-2.095	-1.417
-1.919	1.978	-4.925	0.8	-2.022	-1.418

Alternative case for $\text{cor}(S1, W) = 0.25$, crossover rate=0.5, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.400	0.823	-4.301	0.8	-1.496	-1.596
-1.475	0.750	-4.389	0.8	-1.595	-1.688
-1.536	0.731	-4.471	0.8	-1.669	-1.779
-1.598	0.717	-4.551	0.8	-1.702	-1.868

-1.653	0.735	-4.617	0.8	-1.863	-1.956
-1.703	0.750	-4.687	0.8	-1.789	-2.048
-1.742	0.805	-4.749	0.8	-1.915	-2.137
-1.764	1.153	-4.797	0.8	-1.832	-2.230
-1.801	2.488	-4.845	0.8	-2.029	-2.319
-1.888	2.253	-4.888	0.8	-2.059	-2.407
-1.993	1.745	-4.941	0.8	-1.925	-2.501

Null case for $\text{cor}(S1, W) = 0.25$, crossover rate=0.5, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	:
-1.280	1.109	-4.194	0.8	-1.457	-1.401	
-1.298	1.243	-4.258	0.8	-1.346	-1.403	
-1.265	1.517	-4.310	0.8	-1.520	-1.405	
-1.174	3.818	-4.362	0.8	-1.394	-1.407	
-1.333	2.083	-4.414	0.8	-1.437	-1.409	
-1.326	2.365	-4.446	0.8	-1.402	-1.411	
-1.305	1.138	-4.477	0.8	-1.354	-1.413	
-1.316	1.420	-4.508	0.8	-1.337	-1.414	
-1.324	1.685	-4.526	0.8	-1.411	-1.416	
-1.354	2.078	-4.544	0.8	-1.355	-1.417	
-1.341	1.710	-4.554	0.8	-1.452	-1.418	

Alternative case for $\text{cor}(S1, W) = 0.25$, crossover rate=0.5, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	:
-1.410	0.992	-4.305	0.8	-1.479	-1.596	
-1.514	1.397	-4.392	0.8	-1.704	-1.687	
-1.569	0.983	-4.476	0.8	-1.587	-1.778	

-1.675	0.818	-4.554	0.8	-1.707	-1.869
-1.735	0.829	-4.620	0.8	-1.797	-1.956
-1.731	1.488	-4.691	0.8	-1.755	-2.050
-1.775	0.935	-4.750	0.8	-1.823	-2.137
-1.891	1.254	-4.798	0.8	-1.903	-2.229
-1.920	0.884	-4.849	0.8	-1.851	-2.322
-2.025	1.154	-4.904	0.8	-2.011	-2.413
-2.020	1.088	-4.935	0.8	-2.091	-2.500

Null case for $\text{cor}(S1, W) = 0.25$, crossover rate=0.5, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Sample Size
-1.339	0.656	-4.195	0.8	-1.383	-1.401	1000
-1.347	0.677	-4.256	0.8	-1.415	-1.403	1000
-1.344	0.736	-4.313	0.8	-1.215	-1.405	1000
-1.328	1.211	-4.364	0.8	-1.413	-1.407	1000
-1.359	1.072	-4.409	0.8	-1.441	-1.409	1000
-1.389	1.266	-4.454	0.8	-1.370	-1.411	1000
-1.390	0.948	-4.480	0.8	-1.435	-1.412	1000
-1.369	0.995	-4.506	0.8	-1.395	-1.414	1000
-1.358	1.254	-4.528	0.8	-1.466	-1.415	1000
-1.381	7.947	-4.542	0.8	-1.420	-1.417	1000
-1.344	1.586	-4.555	0.8	-1.455	-1.418	1000

Alternative case for $\text{cor}(S1, W) = 0.25$, crossover rate=1, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Sample Size
-1.500	1.489	-4.303	0.8	-1.569	-1.597	1000
-1.485	1.138	-4.390	0.8	-1.521	-1.687	1000

-1.537	1.368	-4.471	0.8	-1.597	-1.779
-1.526	2.427	-4.550	0.8	-1.711	-1.867
-1.589	1.326	-4.619	0.8	-1.798	-1.956
-1.686	1.315	-4.687	0.8	-1.711	-2.046
-1.779	1.051	-4.742	0.8	-1.860	-2.137
-1.795	1.453	-4.797	0.8	-1.849	-2.227
-1.829	1.301	-4.833	0.8	-1.972	-2.318
-1.805	1.805	-4.887	0.8	-1.922	-2.410
-1.868	2.090	-4.929	0.8	-2.033	-2.501

Null case for $\text{cor}(S1, W) = 0.25$, crossover rate=1, sample size 1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.247	2.272	-4.194	0.8	-1.448	-1.401
-1.310	1.478	-4.254	0.8	-1.438	-1.403
-1.288	1.551	-4.309	0.8	-1.437	-1.405
-1.215	3.097	-4.362	0.8	-1.480	-1.407
-1.308	1.763	-4.402	0.8	-1.508	-1.409
-1.339	1.252	-4.443	0.8	-1.421	-1.411
-1.351	12.074	-4.477	0.8	-1.486	-1.412
-1.367	1.796	-4.501	0.8	-1.406	-1.414
-1.339	2.007	-4.524	0.8	-1.435	-1.416
-1.286	3.420	-4.537	0.8	-1.388	-1.417
-1.336	8.119	-4.545	0.8	-1.501	-1.418

Alternative case for $\text{cor}(S1, W) = 0.25$, crossover rate=1, sample size 1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.399	1.704	-4.300	0.8	-1.468	-1.598
-1.399	1.704	-4.300	0.8	-1.468	-1.598
-1.399	1.704	-4.300	0.8	-1.468	-1.598

-1.520	1.333	-4.388	0.8	-1.593	-1.687
-1.561	1.273	-4.473	0.8	-1.651	-1.778
-1.548	1.105	-4.553	0.8	-1.615	-1.866
-1.629	0.798	-4.622	0.8	-1.693	-1.959
-1.695	0.786	-4.688	0.8	-1.771	-2.051
-1.759	0.735	-4.748	0.8	-1.881	-2.139
-1.814	0.724	-4.796	0.8	-1.993	-2.230
-1.869	0.723	-4.844	0.8	-1.930	-2.320
-1.910	0.768	-4.898	0.8	-1.959	-2.410
-1.960	4.002	-4.928	0.8	-2.164	-2.500

Null case for $\text{cor}(S1, W) = 0.25$, crossover rate=1, sample size 1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Sample
-1.339	0.875	-4.192	0.8	-1.347	-1.401	1
-1.332	0.926	-4.253	0.8	-1.442	-1.403	2
-1.326	1.523	-4.322	0.8	-1.457	-1.405	3
-1.362	2.076	-4.360	0.8	-1.410	-1.407	4
-1.317	1.433	-4.414	0.8	-1.427	-1.409	5
-1.381	0.790	-4.444	0.8	-1.299	-1.411	6
-1.380	0.848	-4.479	0.8	-1.397	-1.413	7
-1.326	1.141	-4.502	0.8	-1.301	-1.414	8
-1.316	0.985	-4.526	0.8	-1.383	-1.416	9
-1.315	1.429	-4.542	0.8	-1.536	-1.417	10
-1.390	1.883	-4.552	0.8	-1.460	-1.418	11

Alternative case for $\text{cor}(S1, W) = 0.25$, crossover rate=1, sample size 1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Sample
-1.339	0.875	-4.192	0.8	-1.347	-1.401	1

-1.455	0.545	-4.304	0.8	-1.528	-1.596
-1.527	0.517	-4.392	0.8	-1.629	-1.688
-1.595	0.520	-4.474	0.8	-1.673	-1.780
-1.659	0.541	-4.557	0.8	-1.657	-1.867
-1.723	0.561	-4.627	0.8	-1.846	-1.958
-1.783	0.567	-4.692	0.8	-1.850	-2.049
-1.843	0.570	-4.749	0.8	-1.822	-2.138
-1.901	0.550	-4.798	0.8	-1.786	-2.230
-1.953	0.556	-4.845	0.8	-1.917	-2.320
-2.002	0.576	-4.892	0.8	-2.035	-2.409
-2.040	0.627	-4.940	0.8	-2.084	-2.501

Null case for $\text{cor}(S1, W) = 0.25$, crossover rate=1, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Sample
-1.363	4.702	-4.194	0.8	-1.457	-1.401	1
-1.327	0.795	-4.256	0.8	-1.218	-1.403	2
-1.385	0.683	-4.318	0.8	-1.379	-1.405	3
-1.402	0.562	-4.362	0.8	-1.452	-1.407	4
-1.411	0.579	-4.416	0.8	-1.434	-1.409	5
-1.415	0.603	-4.445	0.8	-1.521	-1.411	6
-1.417	0.702	-4.485	0.8	-1.476	-1.413	7
-1.415	0.738	-4.506	0.8	-1.447	-1.414	8
-1.397	0.878	-4.529	0.8	-1.425	-1.416	9
-1.360	1.279	-4.541	0.8	-1.263	-1.417	10
-1.370	1.178	-4.555	0.8	-1.340	-1.418	11

Alternative case for $\text{cor}(S1, W) = 0.5$, crossover rate=0.25, sample

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log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	
-1.592	1.100	-4.366	0.8	-1.632	-1.701	
-1.609	1.261	-4.452	0.8	-1.610	-1.792	
-1.622	2.049	-4.535	0.8	-1.736	-1.883	
-1.689	8.621	-4.627	0.8	-1.773	-1.975	
-1.714	2.050	-4.695	0.8	-1.790	-2.067	
-1.825	1.789	-4.758	0.8	-1.799	-2.158	
-1.736	3.227	-4.828	0.8	-1.968	-2.248	
-1.835	2.605	-4.895	0.8	-1.829	-2.340	
-1.964	1.770	-4.966	0.8	-1.970	-2.426	
-1.982	3.728	-5.012	0.8	-2.133	-2.519	
-2.136	2.353	-5.094	0.8	-2.100	-2.610	

Null case for $\text{cor}(S1,W)=0.5$, crossover rate=0.25, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.375	1.883	-4.236	0.8	-1.383	-1.410
-1.342	3.448	-4.300	0.8	-1.394	-1.412
-1.256	3.434	-4.358	0.8	-1.411	-1.414
-1.295	15.626	-4.428	0.8	-1.280	-1.417
-1.345	2.530	-4.464	0.8	-1.445	-1.419
-1.255	5.803	-4.510	0.8	-1.425	-1.420
-1.284	2.947	-4.554	0.8	-1.451	-1.422
-1.378	2.338	-4.588	0.8	-1.442	-1.424
-1.392	2.421	-4.617	0.8	-1.411	-1.425
-1.358	7.138	-4.648	0.8	-1.463	-1.427
-1.257	4.045	-4.671	0.8	-1.412	-1.428

Alternative case for $\text{cor}(S1,W)=0.5$, crossover rate=0.25, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.533	1.212	-4.365	0.8	-1.606	-1.703
-1.613	1.049	-4.454	0.8	-1.606	-1.793
-1.637	1.073	-4.546	0.8	-1.774	-1.884
-1.700	1.006	-4.624	0.8	-1.581	-1.971
-1.738	1.545	-4.701	0.8	-1.812	-2.067
-1.803	1.087	-4.769	0.8	-2.015	-2.156
-1.822	1.416	-4.825	0.8	-1.925	-2.248
-1.797	2.269	-4.906	0.8	-1.935	-2.338
-1.850	5.999	-4.965	0.8	-2.045	-2.430
-1.927	2.500	-5.019	0.8	-2.067	-2.519
-2.016	5.968	-5.077	0.8	-2.161	-2.613

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.308	1.963	-4.237	0.8	-1.452	-1.410
-1.382	2.736	-4.301	0.8	-1.382	-1.412
-1.471	3.472	-4.359	0.8	-1.416	-1.414
-1.493	1.201	-4.422	0.8	-1.439	-1.417
-1.430	2.404	-4.480	0.8	-1.433	-1.418
-1.539	2.075	-4.513	0.8	-1.427	-1.420
-1.538	1.899	-4.558	0.8	-1.484	-1.422
-1.433	2.844	-4.589	0.8	-1.406	-1.424
-1.457	2.647	-4.625	0.8	-1.478	-1.425
-1.499	10.568	-4.649	0.8	-1.466	-1.426
-1.497	5.545	-4.674	0.8	-1.473	-1.428

Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Residual
-1.508	1.205	-4.369	0.8	-1.620	-1.703	0.083
-1.508	1.523	-4.458	0.8	-1.599	-1.793	0.204
-1.647	0.925	-4.540	0.8	-1.664	-1.884	0.220
-1.708	0.940	-4.632	0.8	-1.737	-1.971	0.233
-1.753	1.132	-4.716	0.8	-1.903	-2.068	0.165
-1.729	2.043	-4.769	0.8	-1.887	-2.155	0.268
-1.807	1.167	-4.849	0.8	-2.025	-2.247	0.222
-1.846	1.367	-4.896	0.8	-2.059	-2.338	0.281
-1.881	3.991	-4.954	0.8	-1.940	-2.426	0.486
-2.012	2.100	-5.106	0.8	-2.168	-2.518	0.350
-2.142	1.522	-5.069	0.8	-2.167	-2.611	0.444

Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Residual
-1.308	1.315	-4.240	0.8	-1.473	-1.409	0.064
-1.344	1.445	-4.305	0.8	-1.394	-1.412	0.018
-1.335	1.727	-4.366	0.8	-1.453	-1.414	0.039
-1.402	2.379	-4.422	0.8	-1.407	-1.417	0.010
-1.389	1.852	-4.483	0.8	-1.341	-1.419	0.078
-1.319	2.252	-4.512	0.8	-1.390	-1.420	0.030
-1.305	2.801	-4.560	0.8	-1.367	-1.422	0.055
-1.267	2.035	-4.592	0.8	-1.400	-1.423	0.023
-1.350	1.513	-4.626	0.8	-1.373	-1.425	0.052
-1.357	1.637	-4.655	0.8	-1.429	-1.426	0.003
-1.382	3.008	-4.682	0.8	-1.382	-1.428	0.046

Alternative case for $\text{cor}(S1,W)=0.5$, crossover rate=0.5, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Residual
-1.603	0.959	-4.366	0.8	-1.511	-1.702	0.191
-1.688	1.717	-4.454	0.8	-1.603	-1.792	0.199
-1.707	1.049	-4.541	0.8	-1.650	-1.883	0.233
-1.762	1.036	-4.618	0.8	-1.802	-1.977	0.175
-1.707	2.616	-4.702	0.8	-1.765	-2.067	0.302
-1.837	1.606	-4.767	0.8	-1.834	-2.154	0.320
-1.763	1.757	-4.831	0.8	-1.997	-2.246	0.249
-1.835	1.532	-4.887	0.8	-1.874	-2.335	0.461
-1.922	1.704	-4.944	0.8	-1.996	-2.428	0.502
-1.947	3.572	-5.011	0.8	-2.048	-2.522	0.474
-2.079	2.132	-5.080	0.8	-2.222	-2.612	0.390

Null case for $\text{cor}(S1,W)=0.5$, crossover rate=0.5, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Residual
-1.321	1.176	-4.239	0.8	-1.429	-1.409	0.020
-1.340	1.282	-4.300	0.8	-1.464	-1.412	0.052
-1.400	1.132	-4.374	0.8	-1.398	-1.414	0.016
-1.397	1.106	-4.415	0.8	-1.443	-1.416	0.027
-1.421	1.111	-4.461	0.8	-1.365	-1.419	0.054
-1.435	1.154	-4.507	0.8	-1.455	-1.420	0.035
-1.371	1.500	-4.544	0.8	-1.481	-1.422	0.059
-1.338	1.861	-4.581	0.8	-1.579	-1.424	0.155
-1.350	3.715	-4.613	0.8	-1.485	-1.425	0.060
-1.378	2.422	-4.643	0.8	-1.381	-1.426	0.045

-1.331	571.647	-4.666	0.8	-1.426	-1.428
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Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	%
-1.513	0.928	-4.365	0.8	-1.566	-1.701	
-1.552	0.815	-4.455	0.8	-1.612	-1.793	
-1.640	0.884	-4.539	0.8	-1.657	-1.886	
-1.701	0.837	-4.632	0.8	-1.835	-1.973	
-1.743	1.170	-4.692	0.8	-1.916	-2.064	
-1.716	1.251	-4.766	0.8	-1.854	-2.157	
-1.829	0.865	-4.828	0.8	-1.970	-2.247	
-1.868	0.937	-4.896	0.8	-1.953	-2.337	
-1.906	1.606	-4.953	0.8	-1.984	-2.427	
-1.976	1.644	-5.012	0.8	-1.966	-2.519	
-2.060	2.416	-5.070	0.8	-2.060	-2.610	

Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	%
-1.319	1.021	-4.236	0.8	-1.527	-1.409	
-1.337	0.878	-4.299	0.8	-1.475	-1.412	
-1.307	1.044	-4.357	0.8	-1.500	-1.414	
-1.277	1.499	-4.411	0.8	-1.408	-1.417	
-1.319	2.234	-4.462	0.8	-1.420	-1.419	
-1.375	2.038	-4.526	0.8	-1.481	-1.421	
-1.330	1.766	-4.548	0.8	-1.374	-1.422	
-1.389	9.337	-4.591	0.8	-1.400	-1.424	
-1.448	1.450	-4.619	0.8	-1.414	-1.425	

-1.478	2.085	-4.653	0.8	-1.516	-1.427
-1.515	1.741	-4.676	0.8	-1.462	-1.428

Alternative case for $\text{cor}(S1, W) = 0.5$, crossover rate=0.5, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Sample Size
-1.465	0.777	-4.369	0.8	-1.646	-1.702	1000
-1.496	0.883	-4.456	0.8	-1.629	-1.791	1000
-1.638	1.247	-4.541	0.8	-1.747	-1.881	1000
-1.667	1.127	-4.632	0.8	-1.735	-1.974	1000
-1.778	0.810	-4.704	0.8	-1.842	-2.065	1000
-1.830	1.129	-4.783	0.8	-1.798	-2.158	1000
-1.881	1.298	-4.833	0.8	-1.928	-2.247	1000
-1.875	2.669	-4.907	0.8	-1.967	-2.339	1000
-1.947	9.096	-4.986	0.8	-2.039	-2.428	1000
-2.059	0.965	-5.020	0.8	-2.167	-2.519	1000
-2.141	0.890	-5.107	0.8	-2.167	-2.611	1000

Null case for $\text{cor}(S1, W) = 0.5$, crossover rate=0.5, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Sample Size
-1.276	1.179	-4.238	0.8	-1.424	-1.409	1000
-1.285	1.000	-4.301	0.8	-1.396	-1.412	1000
-1.326	0.768	-4.365	0.8	-1.446	-1.414	1000
-1.349	0.741	-4.413	0.8	-1.368	-1.416	1000
-1.362	0.797	-4.470	0.8	-1.408	-1.419	1000
-1.398	0.830	-4.518	0.8	-1.370	-1.420	1000
-1.396	0.866	-4.566	0.8	-1.398	-1.422	1000
-1.401	1.059	-4.585	0.8	-1.518	-1.424	1000

-1.362	1.580	-4.619	0.8	-1.408	-1.425
-1.424	1.799	-4.652	0.8	-1.492	-1.427
-1.343	4.956	-4.682	0.8	-1.521	-1.428

Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=1, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.498	0.930	-4.367	0.8	-1.558	-1.703
-1.553	0.888	-4.456	0.8	-1.668	-1.794
-1.605	0.945	-4.553	0.8	-1.745	-1.884
-1.611	0.950	-4.625	0.8	-1.737	-1.973
-1.598	3.672	-4.712	0.8	-1.715	-2.064
-1.788	1.033	-4.760	0.8	-1.872	-2.159
-1.844	0.928	-4.831	0.8	-1.866	-2.247
-1.878	0.972	-4.890	0.8	-1.960	-2.339
-1.900	1.472	-4.960	0.8	-2.034	-2.429
-1.890	1.678	-5.020	0.8	-2.201	-2.516
-2.056	2.340	-5.078	0.8	-2.182	-2.610

Null case for $\text{cor}(S1, W)=0.5$, crossover rate=1, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.326	0.912	-4.239	0.8	-1.453	-1.410
-1.318	0.946	-4.302	0.8	-1.409	-1.412
-1.283	1.323	-4.365	0.8	-1.436	-1.414
-1.211	14.398	-4.415	0.8	-1.442	-1.417
-1.370	1.380	-4.469	0.8	-1.430	-1.418
-1.381	2.779	-4.523	0.8	-1.383	-1.420
-1.388	1.960	-4.548	0.8	-1.332	-1.422

-1.342	5.134	-4.586	0.8	-1.530	-1.424
-1.405	1.833	-4.618	0.8	-1.578	-1.425
-1.416	1.994	-4.647	0.8	-1.475	-1.426
-1.355	2.556	-4.671	0.8	-1.370	-1.428

Alternative case for $\text{cor}(S1, W) = 0.5$, crossover rate=1, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.491	4.332	-4.367	0.8	-1.619	-1.702
-1.498	2.080	-4.462	0.8	-1.696	-1.791
-1.548	1.157	-4.558	0.8	-1.753	-1.882
-1.644	0.684	-4.621	0.8	-1.743	-1.973
-1.711	0.667	-4.691	0.8	-1.744	-2.066
-1.779	0.665	-4.766	0.8	-1.973	-2.154
-1.843	0.668	-4.831	0.8	-1.954	-2.247
-1.896	0.691	-4.896	0.8	-1.955	-2.335
-1.953	0.713	-4.963	0.8	-2.038	-2.427
-1.990	0.767	-5.015	0.8	-2.075	-2.519
-2.020	0.925	-5.069	0.8	-2.184	-2.610

Null case for $\text{cor}(S1, W) = 0.5$, crossover rate=1, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.295	0.990	-4.240	0.8	-1.355	-1.410
-1.334	0.927	-4.308	0.8	-1.346	-1.412
-1.346	4.575	-4.368	0.8	-1.397	-1.415
-1.388	1.040	-4.425	0.8	-1.381	-1.417
-1.350	1.960	-4.472	0.8	-1.363	-1.419
-1.382	0.860	-4.512	0.8	-1.404	-1.420

-1.379	1.021	-4.568	0.8	-1.483	-1.422
-1.329	1.061	-4.588	0.8	-1.297	-1.424
-1.309	1.190	-4.621	0.8	-1.404	-1.425
-1.278	5.086	-4.660	0.8	-1.376	-1.426
-1.317	1.983	-4.686	0.8	-1.475	-1.428

Alternative case for $\text{cor}(S1, W) = 0.5$, crossover rate=1, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.519	0.539	-4.368	0.8	-1.539	-1.702
-1.590	0.532	-4.455	0.8	-1.675	-1.790
-1.658	0.538	-4.546	0.8	-1.587	-1.885
-1.758	0.658	-4.622	0.8	-1.816	-1.973
-1.791	0.580	-4.692	0.8	-1.820	-2.062
-1.854	0.570	-4.770	0.8	-1.889	-2.154
-1.917	0.549	-4.835	0.8	-1.926	-2.246
-1.980	0.545	-4.897	0.8	-2.004	-2.336
-2.033	0.560	-4.954	0.8	-1.928	-2.431
-2.079	0.598	-5.009	0.8	-2.154	-2.517
-2.123	0.648	-5.077	0.8	-2.084	-2.609

Null case for $\text{cor}(S1, W) = 0.5$, crossover rate=1, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.359	0.652	-4.241	0.8	-1.413	-1.409
-1.346	2.661	-4.305	0.8	-1.395	-1.412
-1.397	0.578	-4.367	0.8	-1.477	-1.414
-1.398	0.752	-4.432	0.8	-1.341	-1.417
-1.459	0.579	-4.474	0.8	-1.326	-1.418

-1.471	0.558	-4.553	0.8	-1.428	-1.420
-1.481	0.583	-4.550	0.8	-1.498	-1.422
-1.481	0.632	-4.593	0.8	-1.396	-1.424
-1.462	0.708	-4.632	0.8	-1.343	-1.425
-1.425	0.981	-4.651	0.8	-1.439	-1.427
-1.342	3.774	-4.679	0.8	-1.350	-1.428

Alternative case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.25, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.669	1.250	-4.466	0.8	-1.672	-1.809
-1.622	3.599	-4.567	0.8	-1.577	-1.901
-1.704	2.184	-4.656	0.8	-1.746	-1.988
-1.789	2.285	-4.728	0.8	-1.775	-2.081
-1.840	1.536	-4.810	0.8	-1.811	-2.175
-1.872	1.976	-4.886	0.8	-2.013	-2.260
-1.935	12.084	-4.954	0.8	-2.013	-2.354
-1.945	2.243	-5.010	0.8	-2.001	-2.447
-1.922	2.400	-5.081	0.8	-2.087	-2.537
-2.041	2.221	-5.174	0.8	-2.146	-2.631
-2.101	2.565	-5.217	0.8	-2.370	-2.719

Null case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.25, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.272	1.214	-4.322	0.8	-1.442	-1.420
-1.246	1.566	-4.382	0.8	-1.403	-1.422
-1.255	1.430	-4.437	0.8	-1.382	-1.425
-1.296	1.909	-4.500	0.8	-1.471	-1.427

-1.286	4.719	-4.538	0.8	-1.456	-1.429
-1.298	2.405	-4.602	0.8	-1.513	-1.430
-1.385	3.263	-4.645	0.8	-1.309	-1.432
-1.338	2.888	-4.689	0.8	-1.395	-1.434
-1.501	34.456	-4.727	0.8	-1.534	-1.435
-1.593	2.986	-4.770	0.8	-1.427	-1.437
-1.565	2.386	-4.809	0.8	-1.371	-1.438

Alternative case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.25, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Sample Size
-1.497	1.858	-4.471	0.8	-1.692	-1.808	1000
-1.522	2.959	-4.553	0.8	-1.699	-1.897	1000
-1.732	1.135	-4.643	0.8	-1.697	-1.990	1000
-1.809	1.165	-4.730	0.8	-1.813	-2.083	1000
-1.826	2.160	-4.800	0.8	-1.766	-2.172	1000
-1.885	1.716	-4.880	0.8	-1.895	-2.265	1000
-1.986	1.585	-4.958	0.8	-2.028	-2.359	1000
-2.001	1.555	-5.015	0.8	-2.086	-2.445	1000
-2.042	1.335	-5.091	0.8	-2.087	-2.539	1000
-2.115	1.718	-5.174	0.8	-2.198	-2.625	1000
-2.192	1.676	-5.222	0.8	-2.134	-2.721	1000

Null case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.25, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.216	1.649	-4.312	0.8	-1.482	-1.420
-1.297	2.690	-4.376	0.8	-1.341	-1.422
-1.297	2.676	-4.435	0.8	-1.397	-1.425

-1.340	2.121	-4.502	0.8	-1.361	-1.427
-1.425	1.423	-4.571	0.8	-1.360	-1.429
-1.444	2.144	-4.586	0.8	-1.436	-1.431
-1.363	3.131	-4.640	0.8	-1.515	-1.433
-1.487	2.514	-4.682	0.8	-1.465	-1.434
-1.461	2.728	-4.725	0.8	-1.533	-1.435
-1.402	3.650	-4.767	0.8	-1.538	-1.437
-1.440	37.304	-4.804	0.8	-1.472	-1.438

Alternative case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.25, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.576	1.112	-4.475	0.8	-1.595	-1.809
-1.625	1.399	-4.559	0.8	-1.647	-1.899
-1.719	1.018	-4.643	0.8	-1.860	-1.988
-1.797	1.265	-4.742	0.8	-1.923	-2.081
-1.862	1.031	-4.808	0.8	-1.887	-2.170
-1.940	0.934	-4.875	0.8	-1.829	-2.265
-1.949	1.557	-4.968	0.8	-1.987	-2.356
-2.109	2.818	-5.026	0.8	-2.041	-2.448
-2.142	1.684	-5.086	0.8	-2.071	-2.537
-2.206	13.459	-5.155	0.8	-2.192	-2.627
-2.216	2.049	-5.232	0.8	-2.250	-2.718

Null case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.25, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.280	1.016	-4.318	0.8	-1.339	-1.420
-1.302	1.053	-4.387	0.8	-1.403	-1.422

-1.284	1.398	-4.440	0.8	-1.366	-1.425
-1.311	2.522	-4.496	0.8	-1.505	-1.427
-1.324	1.946	-4.561	0.8	-1.486	-1.429
-1.439	1.291	-4.594	0.8	-1.331	-1.431
-1.424	1.963	-4.652	0.8	-1.418	-1.432
-1.466	1.434	-4.685	0.8	-1.573	-1.434
-1.511	19.349	-4.728	0.8	-1.423	-1.436
-1.552	1.684	-4.781	0.8	-1.349	-1.437
-1.446	5.422	-4.803	0.8	-1.539	-1.438

Alternative case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.5, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.625	1.040	-4.464	0.8	-1.637	-1.805
-1.658	0.793	-4.560	0.8	-1.656	-1.897
-1.709	0.872	-4.636	0.8	-1.805	-1.990
-1.755	1.319	-4.737	0.8	-1.816	-2.083
-1.755	1.384	-4.794	0.8	-1.869	-2.173
-1.803	1.748	-4.873	0.8	-1.920	-2.265
-1.779	1.967	-4.951	0.8	-1.954	-2.355
-1.837	1.619	-5.033	0.8	-2.136	-2.446
-1.886	6.083	-5.103	0.8	-2.064	-2.536
-2.031	2.879	-5.149	0.8	-2.087	-2.626
-2.123	2.534	-5.223	0.8	-2.257	-2.720

Null case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.5, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.325	0.974	-4.314	0.8	-1.370	-1.420

-1.321	0.956	-4.375	0.8	-1.406	-1.422
-1.320	1.159	-4.436	0.8	-1.314	-1.425
-1.315	1.105	-4.493	0.8	-1.441	-1.427
-1.302	1.713	-4.562	0.8	-1.414	-1.429
-1.320	2.475	-4.594	0.8	-1.479	-1.431
-1.315	1.541	-4.651	0.8	-1.486	-1.433
-1.406	3.630	-4.683	0.8	-1.518	-1.434
-1.362	2.083	-4.728	0.8	-1.417	-1.435
-1.290	10.844	-4.767	0.8	-1.381	-1.437
-1.385	3.012	-4.804	0.8	-1.461	-1.438

Alternative case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.5, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Sample Size
-1.512	0.707	-4.469	0.8	-1.622	-1.809	1000
-1.568	0.752	-4.555	0.8	-1.704	-1.900	1000
-1.610	0.869	-4.638	0.8	-1.800	-1.989	1000
-1.629	1.171	-4.721	0.8	-1.853	-2.083	1000
-1.707	1.688	-4.793	0.8	-1.845	-2.172	1000
-1.780	1.634	-4.888	0.8	-1.905	-2.263	1000
-1.840	1.299	-4.955	0.8	-2.071	-2.352	1000
-1.929	0.933	-5.021	0.8	-2.064	-2.445	1000
-1.989	1.215	-5.103	0.8	-2.102	-2.537	1000
-1.960	2.045	-5.201	0.8	-2.134	-2.629	1000
-1.910	4.290	-5.233	0.8	-2.191	-2.718	1000

Null case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.5, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.321	0.956	-4.375	0.8	-1.406	-1.422

-1.317	0.813	-4.313	0.8	-1.344	-1.420
-1.342	0.795	-4.374	0.8	-1.450	-1.422
-1.267	4.947	-4.443	0.8	-1.492	-1.425
-1.327	0.936	-4.496	0.8	-1.415	-1.426
-1.301	1.116	-4.572	0.8	-1.470	-1.429
-1.341	1.749	-4.591	0.8	-1.312	-1.431
-1.277	3.496	-4.642	0.8	-1.458	-1.432
-1.280	20.275	-4.680	0.8	-1.338	-1.434
-1.253	3.416	-4.722	0.8	-1.407	-1.435
-1.354	4.271	-4.763	0.8	-1.464	-1.436
-1.334	3.049	-4.797	0.8	-1.460	-1.438

Alternative case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.5, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Sample Size
-1.518	5.394	-4.472	0.8	-1.593	-1.805	1000
-1.670	0.575	-4.557	0.8	-1.667	-1.899	1000
-1.727	0.648	-4.649	0.8	-1.798	-1.992	1000
-1.818	1.277	-4.744	0.8	-1.901	-2.081	1000
-1.839	0.745	-4.809	0.8	-1.849	-2.173	1000
-1.919	0.791	-4.888	0.8	-2.008	-2.263	1000
-1.987	1.314	-4.963	0.8	-2.003	-2.354	1000
-2.094	1.115	-5.034	0.8	-1.962	-2.445	1000
-2.090	0.908	-5.091	0.8	-2.080	-2.538	1000
-2.197	1.193	-5.173	0.8	-2.234	-2.628	1000
-2.239	1.847	-5.225	0.8	-2.256	-2.719	1000

Null case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.5, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.350	0.634	-4.316	0.8	-1.296	-1.420
-1.389	0.703	-4.376	0.8	-1.413	-1.423
-1.413	0.649	-4.435	0.8	-1.416	-1.425
-1.399	0.880	-4.495	0.8	-1.356	-1.427
-1.421	0.798	-4.552	0.8	-1.447	-1.429
-1.449	0.982	-4.610	0.8	-1.376	-1.431
-1.433	1.207	-4.648	0.8	-1.411	-1.432
-1.456	1.018	-4.683	0.8	-1.440	-1.434
-1.396	1.660	-4.727	0.8	-1.521	-1.435
-1.338	1.998	-4.770	0.8	-1.473	-1.437
-1.384	3.434	-4.804	0.8	-1.454	-1.438

Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth
-1.562	1.075	-4.467	0.8	-1.629	-1.808
-1.629	0.853	-4.565	0.8	-1.816	-1.898
-1.646	1.119	-4.651	0.8	-1.794	-1.988
-1.699	0.834	-4.718	0.8	-1.840	-2.079
-1.817	1.382	-4.796	0.8	-1.924	-2.174
-1.819	10.095	-4.890	0.8	-1.852	-2.265
-1.925	0.875	-4.952	0.8	-2.072	-2.356
-1.955	1.129	-5.027	0.8	-2.141	-2.445
-1.922	2.387	-5.083	0.8	-2.156	-2.538
-2.003	1.718	-5.169	0.8	-2.114	-2.630
-2.107	1.816	-5.256	0.8	-2.267	-2.719

Null case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample

Null case for cor(S1,W)=0.75, crossover rate=1, sample 1

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Residual
-1.353	1.070	-4.318	0.8	-1.456	-1.420	0.036
-1.309	1.943	-4.381	0.8	-1.414	-1.422	0.008
-1.302	1.256	-4.438	0.8	-1.486	-1.424	0.062
-1.212	5.296	-4.497	0.8	-1.352	-1.427	0.075
-1.315	1.226	-4.551	0.8	-1.412	-1.429	0.017
-1.290	1.319	-4.605	0.8	-1.403	-1.431	0.028
-1.315	1.628	-4.645	0.8	-1.422	-1.433	0.011
-1.315	1.482	-4.687	0.8	-1.477	-1.434	0.043
-1.229	4.688	-4.739	0.8	-1.463	-1.435	0.028
-1.327	4.860	-4.764	0.8	-1.446	-1.436	0.010
-1.274	8.198	-4.809	0.8	-1.477	-1.438	0.039

Alternative case for cor(S1,W)=0.75, crossover rate=1, sample 1

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Residual
-1.569	0.549	-4.472	0.8	-1.614	-1.809	0.195
-1.631	0.575	-4.557	0.8	-1.694	-1.899	0.205
-1.666	0.649	-4.642	0.8	-1.828	-1.988	0.160
-1.741	0.579	-4.726	0.8	-1.812	-2.083	0.271
-1.798	0.599	-4.808	0.8	-1.952	-2.171	0.219
-1.874	0.599	-4.874	0.8	-1.923	-2.263	0.340
-1.917	0.746	-4.954	0.8	-1.864	-2.355	0.491
-1.978	0.782	-5.025	0.8	-1.915	-2.447	0.532
-2.048	0.936	-5.087	0.8	-1.961	-2.537	0.576
-2.095	0.946	-5.178	0.8	-2.295	-2.628	0.333
-2.126	6.900	-5.239	0.8	-2.145	-2.718	0.573

Null case for $\text{cor}(S1, W) = 0.75$, crossover rate=1, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Residual
-1.303	0.755	-4.318	0.8	-1.354	-1.420	0.066
-1.312	0.700	-4.381	0.8	-1.383	-1.422	0.041
-1.252	1.979	-4.439	0.8	-1.492	-1.425	0.067
-1.326	0.998	-4.509	0.8	-1.415	-1.427	0.012
-1.309	1.120	-4.567	0.8	-1.442	-1.429	0.013
-1.348	1.110	-4.602	0.8	-1.461	-1.431	0.030
-1.293	1.169	-4.650	0.8	-1.311	-1.432	0.121
-1.318	1.217	-4.691	0.8	-1.468	-1.434	0.034
-1.326	9.634	-4.734	0.8	-1.438	-1.435	0.003
-1.310	1.511	-4.773	0.8	-1.522	-1.437	0.085
-1.401	3.311	-4.818	0.8	-1.448	-1.438	0.010

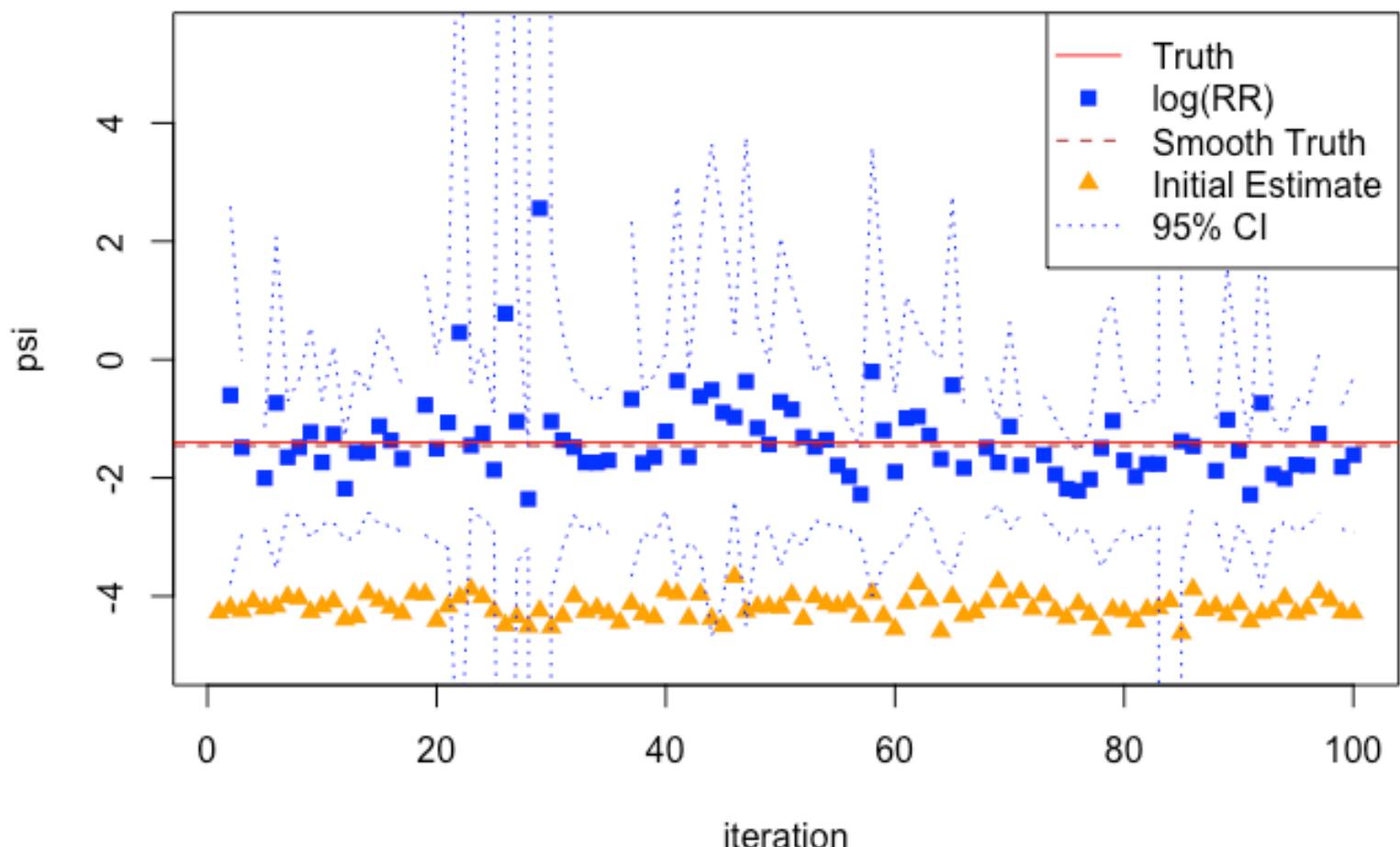
Alternative case for $\text{cor}(S1, W) = 0.75$, crossover rate=1, sample size=1000

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	Residual
-1.586	0.519	-4.472	0.8	-1.716	-1.807	0.091
-1.669	0.466	-4.559	0.8	-1.782	-1.901	0.119
-1.753	0.449	-4.639	0.8	-1.745	-1.989	0.244
-1.818	0.463	-4.726	0.8	-1.858	-2.078	0.220
-1.887	0.471	-4.798	0.8	-1.917	-2.171	0.254
-1.962	0.492	-4.892	0.8	-2.001	-2.264	0.263
-2.025	0.506	-4.972	0.8	-1.861	-2.352	0.491
-2.095	0.498	-5.021	0.8	-1.972	-2.446	0.474
-2.142	0.547	-5.106	0.8	-2.136	-2.537	0.401
-2.203	0.556	-5.159	0.8	-2.158	-2.624	0.466
-2.244	0.610	-5.230	0.8	-2.182	-2.719	0.537

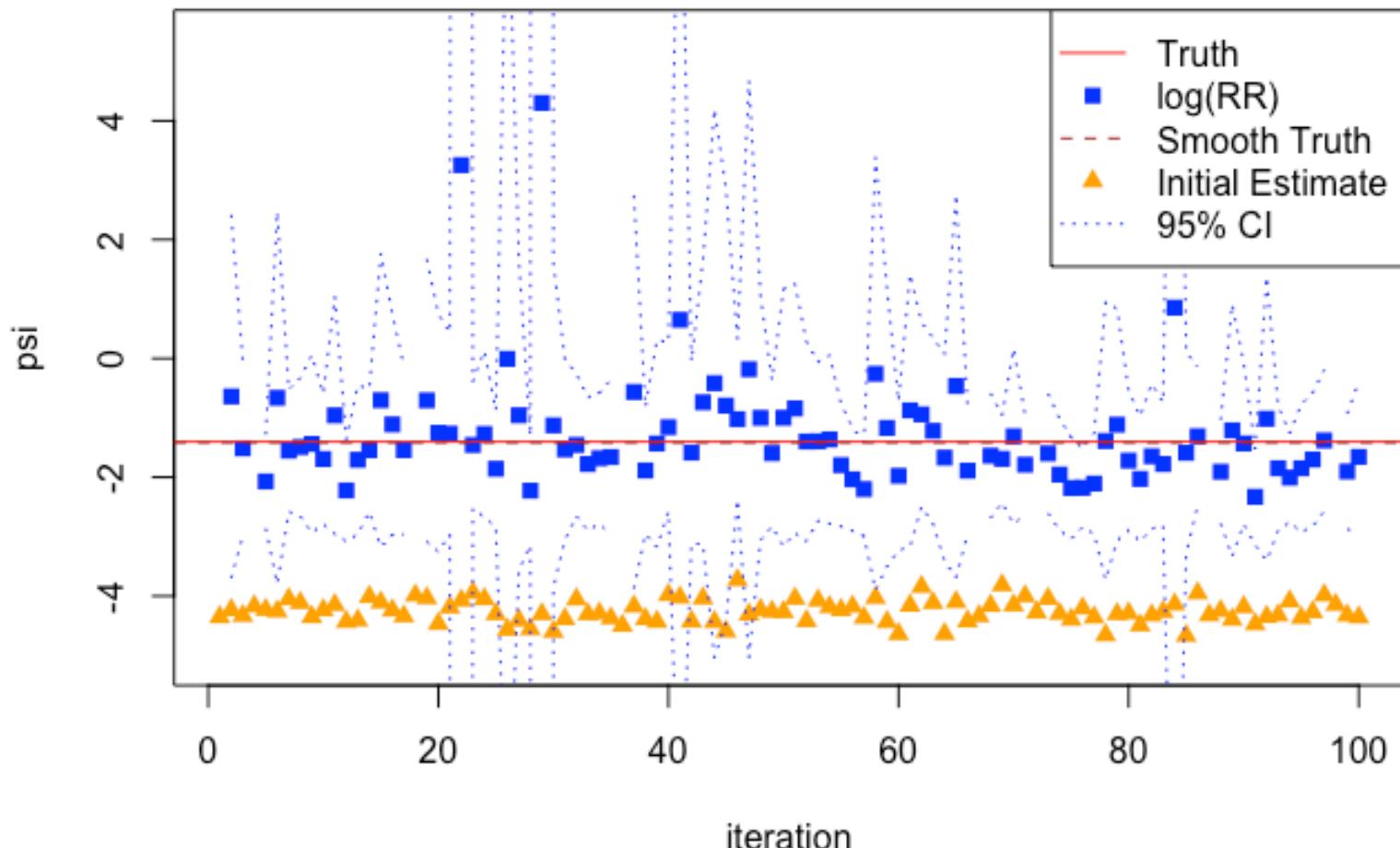
Null case for $\text{cor}(S1, W) = 0.75$, crossover rate=1, sample

log.RR.	SE	Initial.Estimate	Bandwith	Smooth.Truth	Truth	
-1.403	0.557	-4.319	0.8	-1.477	-1.420	
-1.375	0.657	-4.381	0.8	-1.394	-1.422	
-1.412	0.517	-4.440	0.8	-1.387	-1.424	
-1.456	0.488	-4.494	0.8	-1.487	-1.427	
-1.471	0.507	-4.561	0.8	-1.464	-1.429	
-1.484	0.528	-4.597	0.8	-1.381	-1.431	
-1.486	0.564	-4.648	0.8	-1.399	-1.432	
-1.461	0.679	-4.693	0.8	-1.357	-1.434	
-1.386	2.093	-4.733	0.8	-1.446	-1.435	
-1.455	0.955	-4.772	0.8	-1.415	-1.436	
-1.510	1.971	-4.803	0.8	-1.539	-1.438	

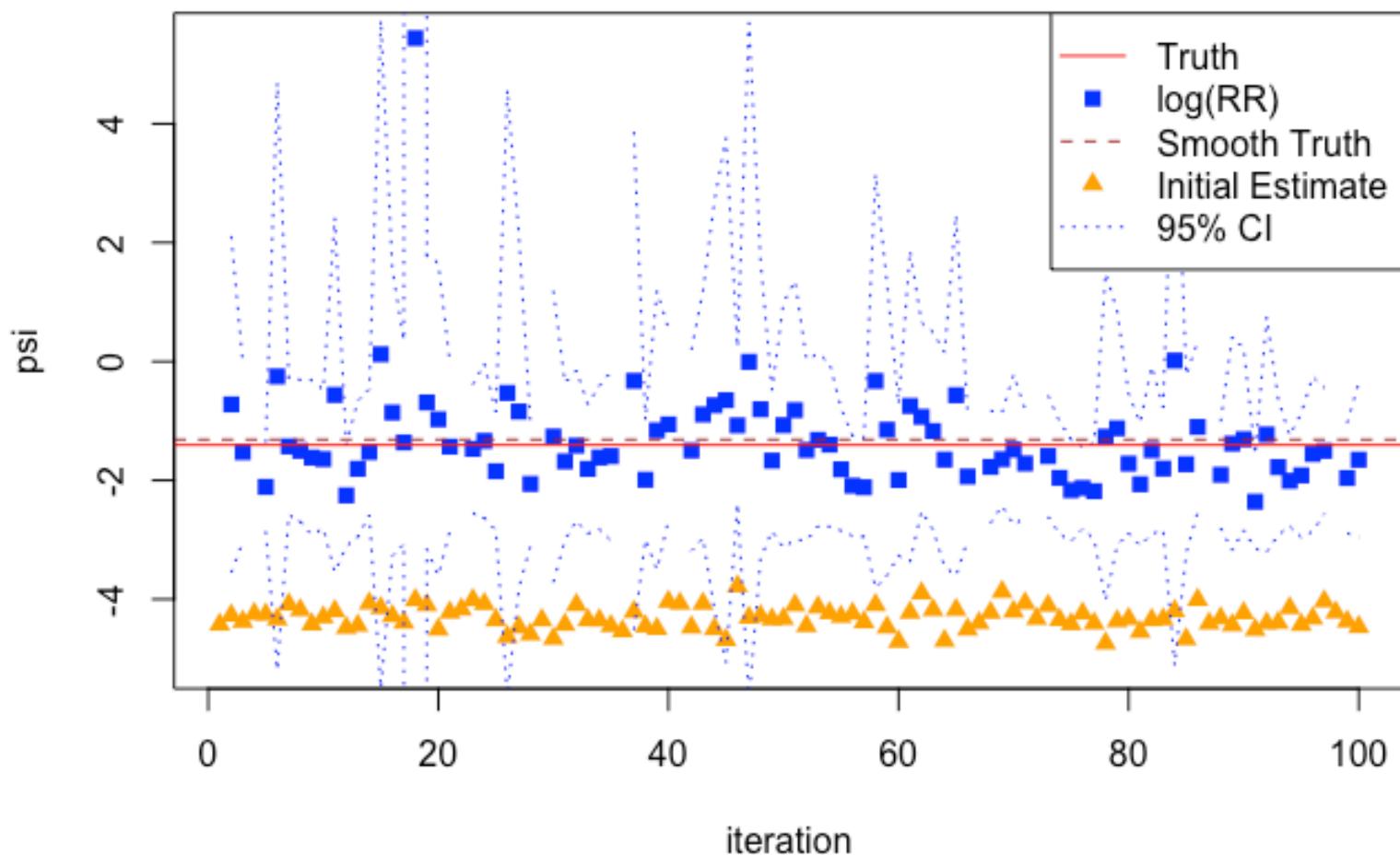
s1=0 Null case for $\text{cor}(S1, W) = 0.25$, crossover rate=0.25, sample rate=0.25



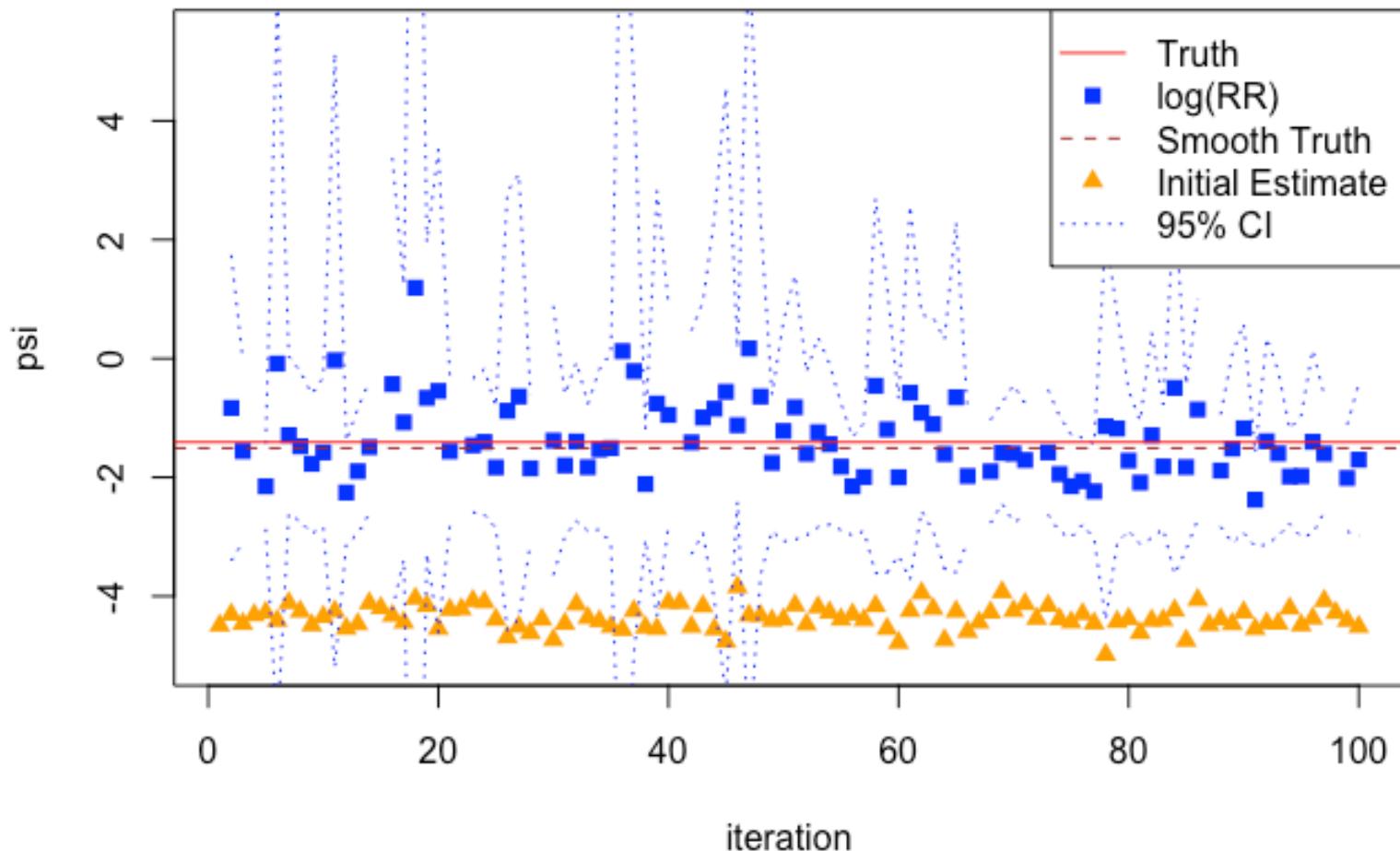
s1=0.1 Null case for cor(S1,W)=0.25, crossover rate=0.25, sample rate=0.25



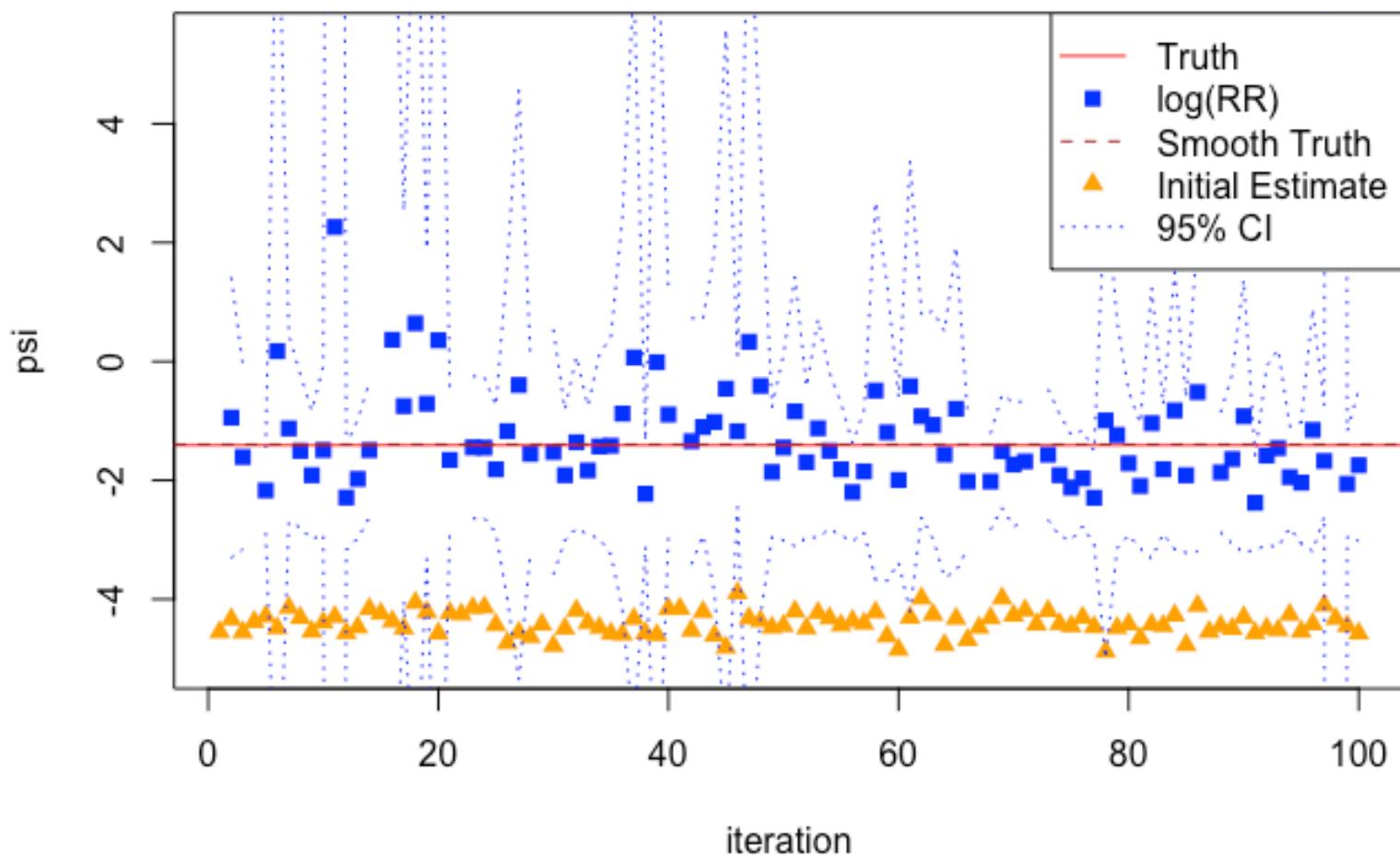
s1=0.2 Null case for cor(S1,W)=0.25, crossover rate=0.25, sample rate=0.25



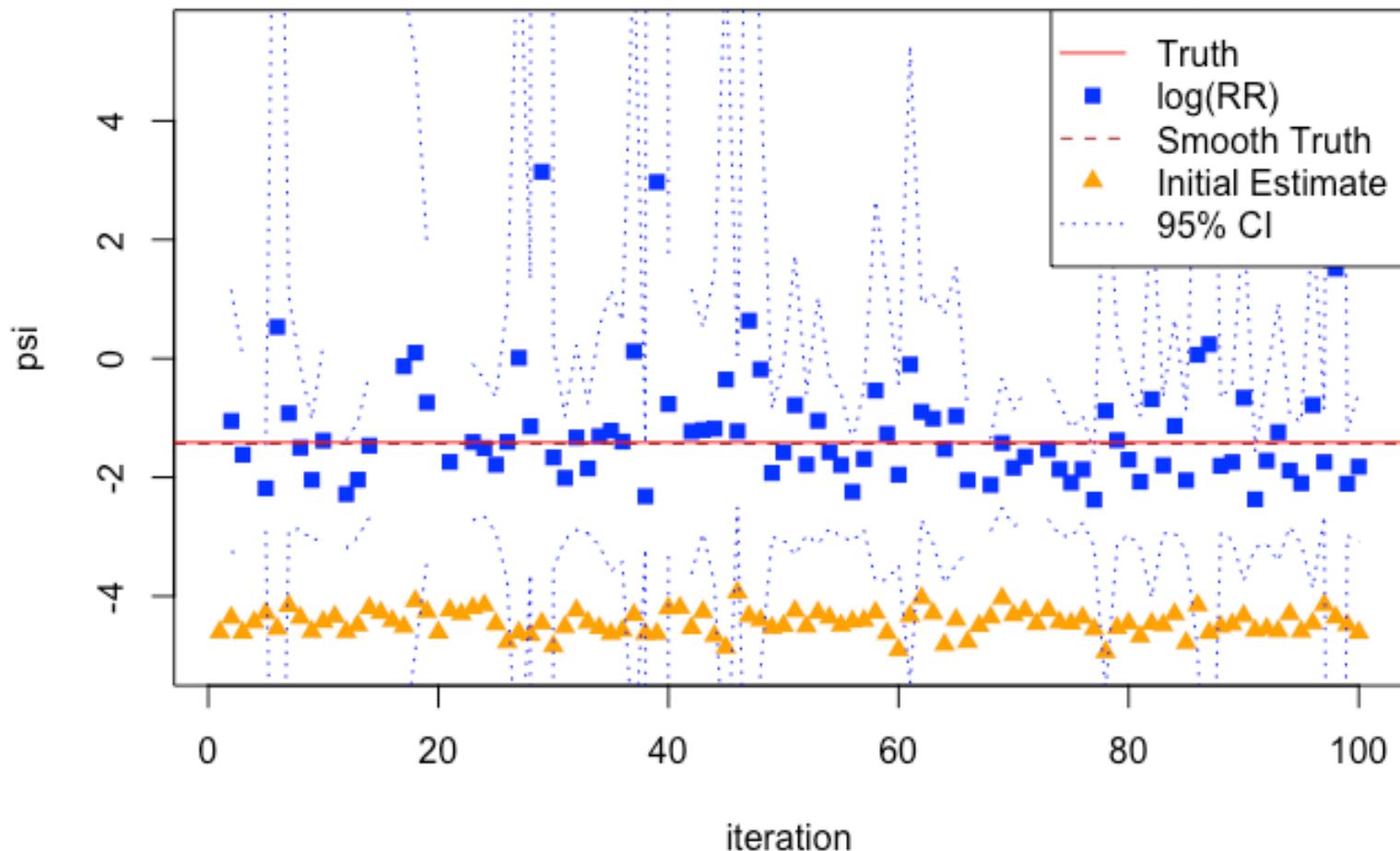
$s_1=0.3$ Null case for $\text{cor}(S_1, W)=0.25$, crossover rate=0.25, sample rate=0.25



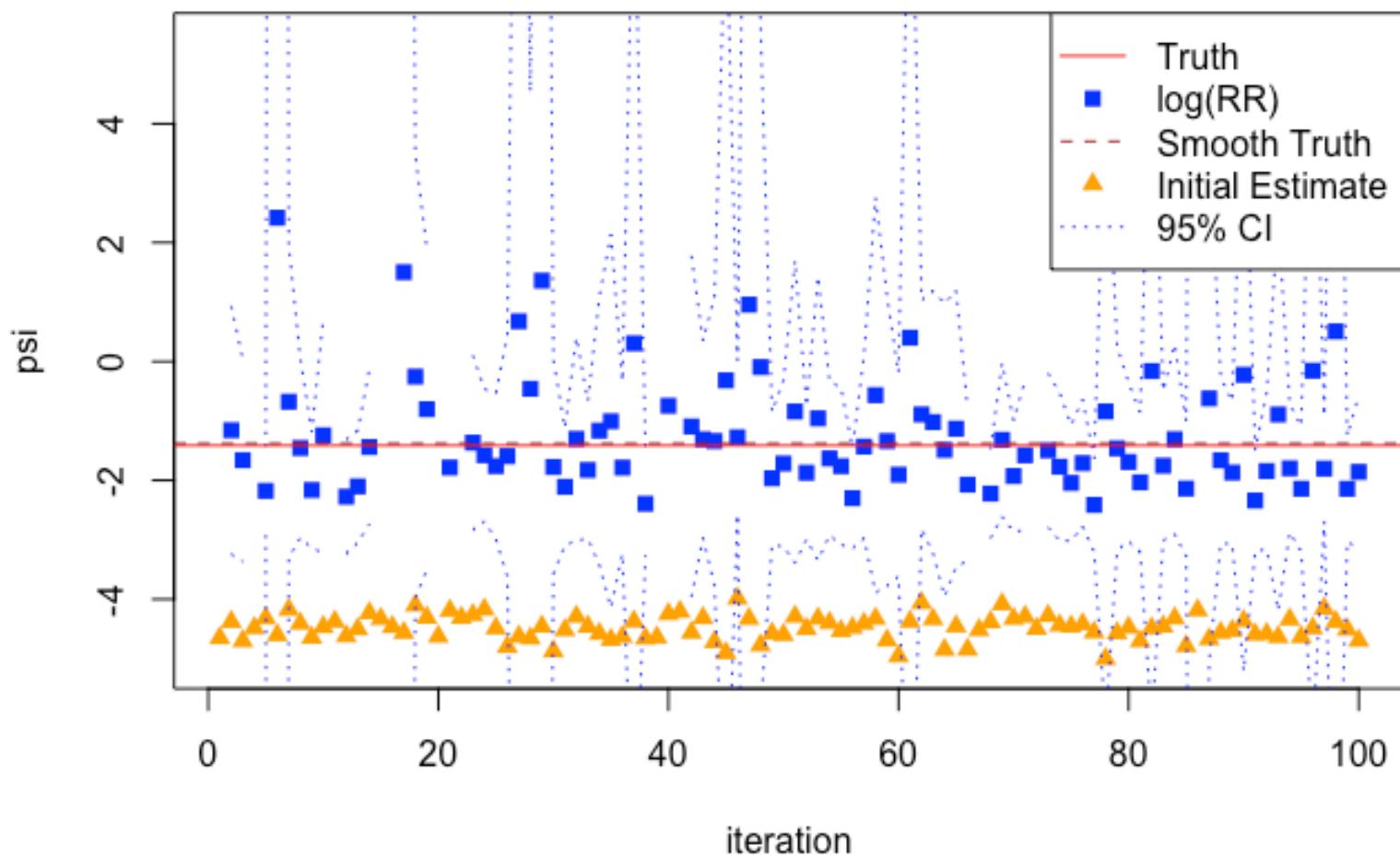
$s_1=0.4$ Null case for $\text{cor}(S_1, W)=0.25$, crossover rate=0.25, sample rate=0.25



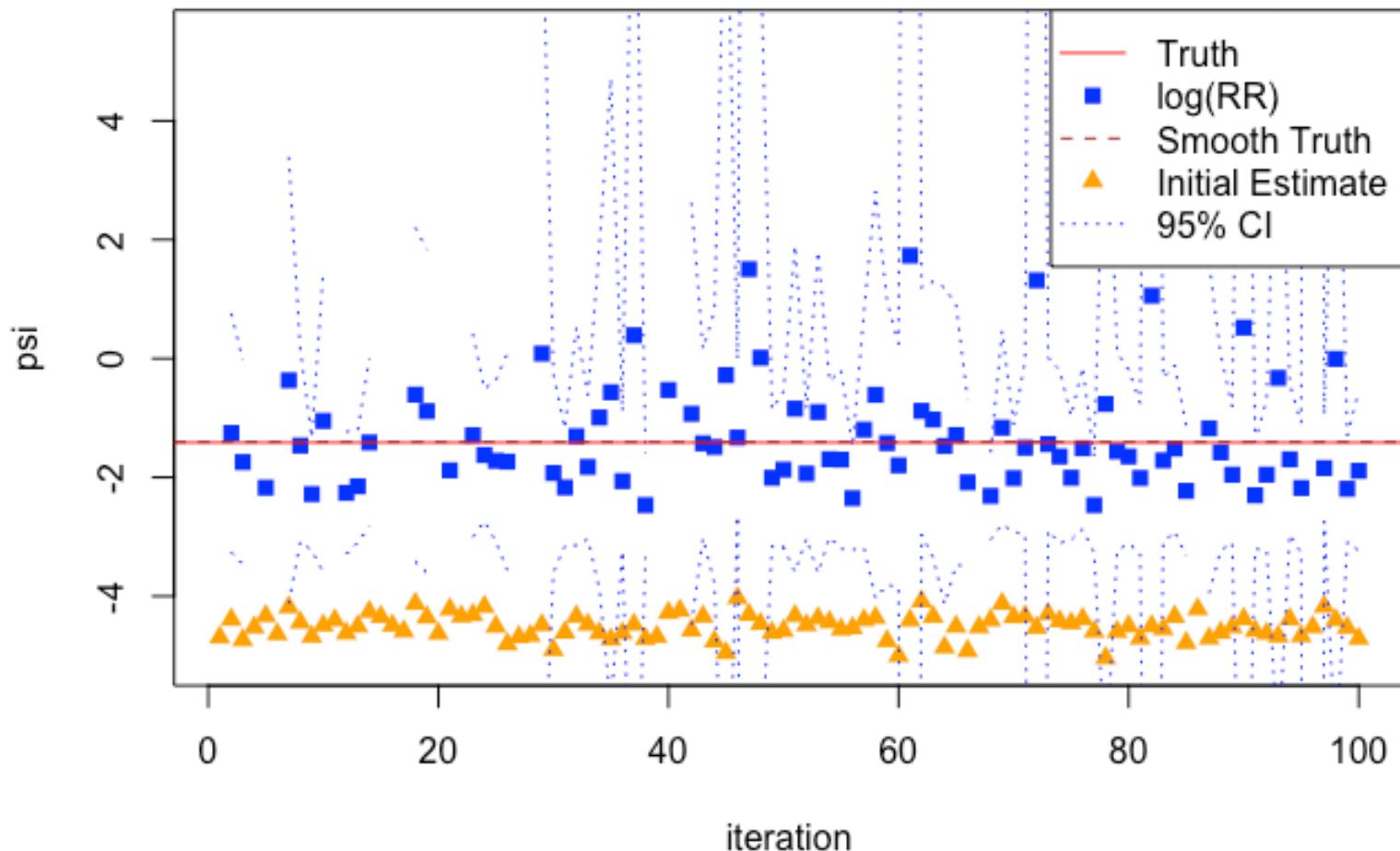
$s_1=0.5$ Null case for $\text{cor}(S_1, W)=0.25$, crossover rate=0.25, sample rate=0.25



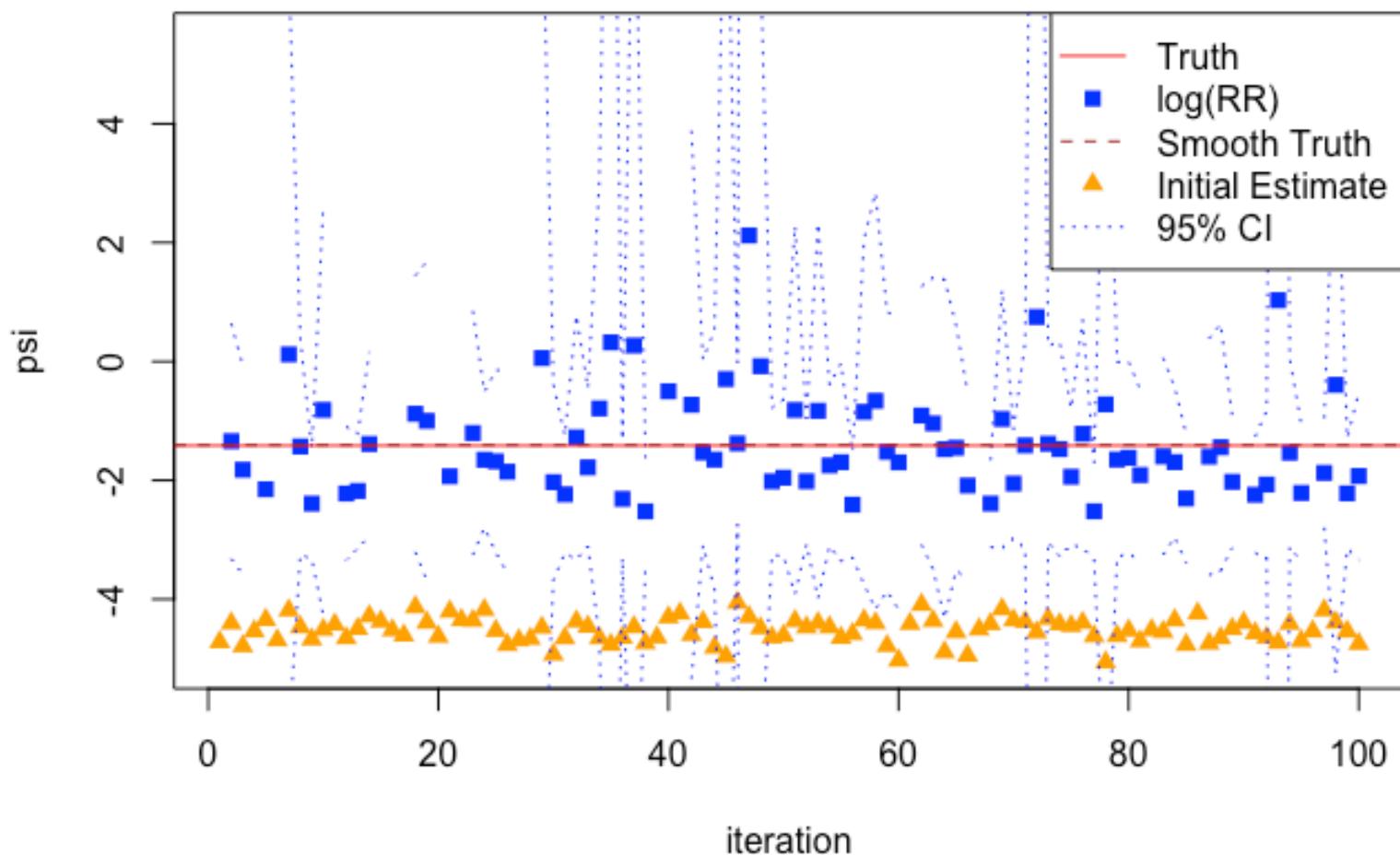
$s_1=0.6$ Null case for $\text{cor}(S_1, W)=0.25$, crossover rate=0.25, sample rate=0.25



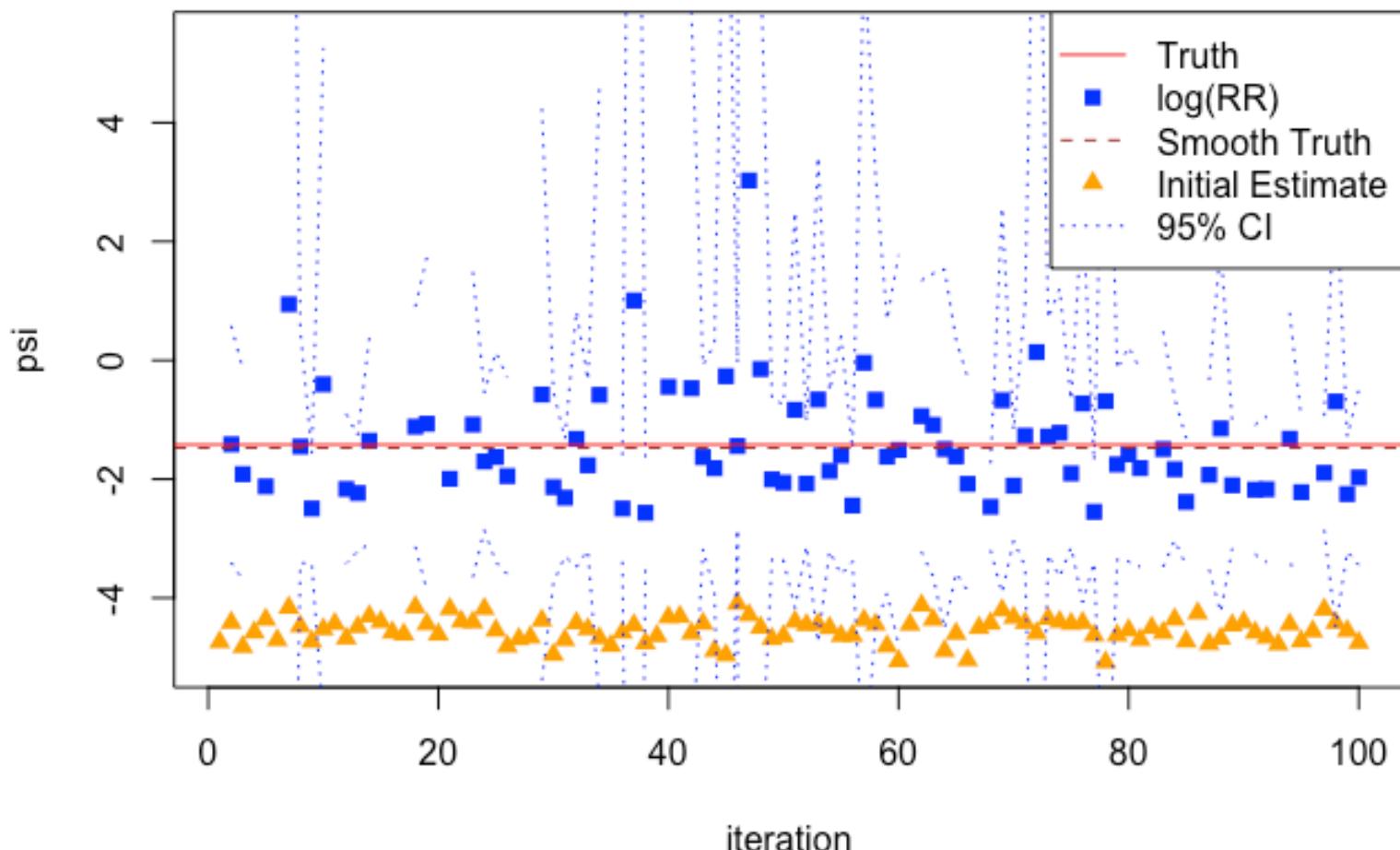
$s_1=0.7$ Null case for $\text{cor}(S_1, W)=0.25$, crossover rate=0.25, sample rate=0.25



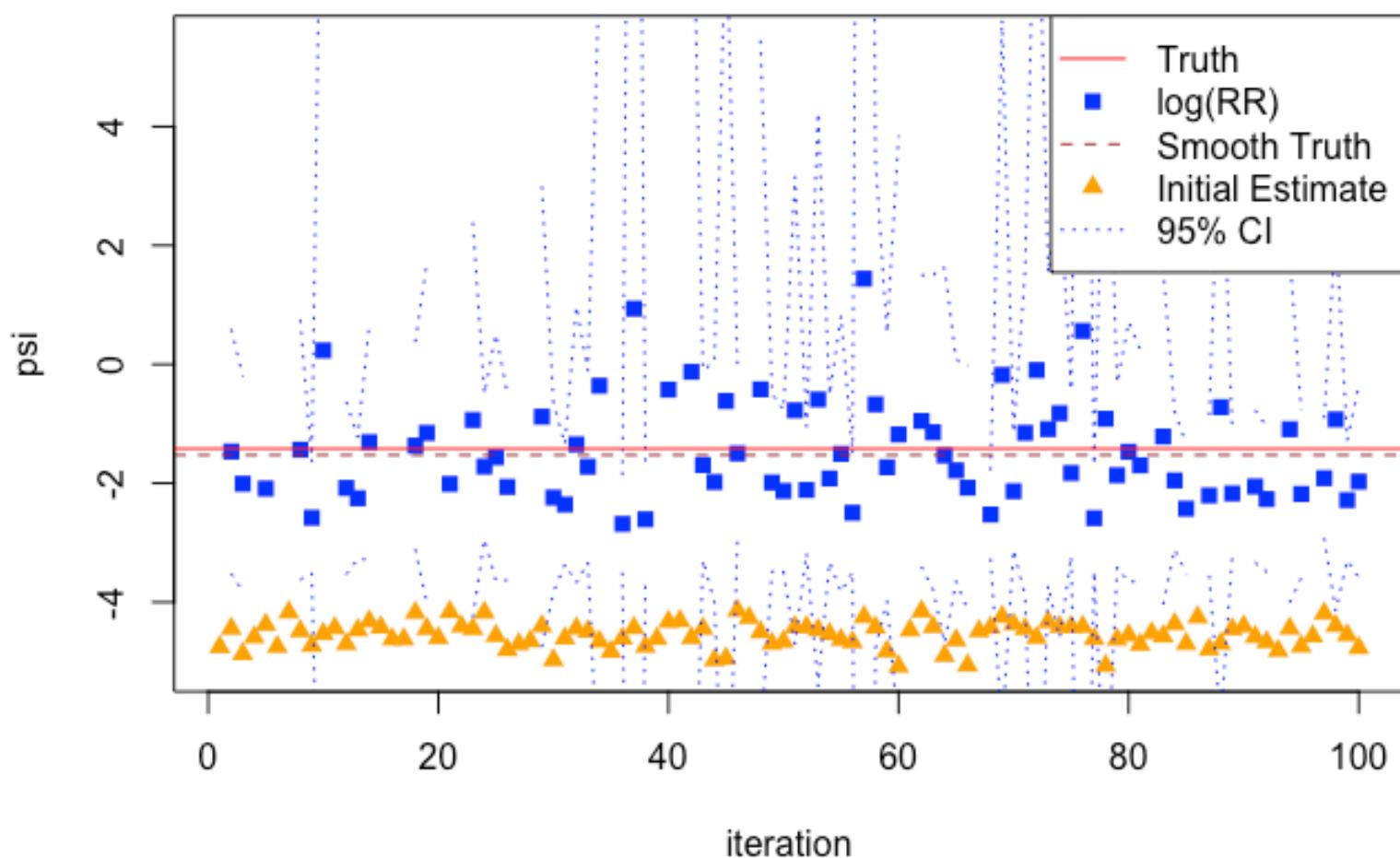
$s_1=0.8$ Null case for $\text{cor}(S_1, W)=0.25$, crossover rate=0.25, sample rate=0.25



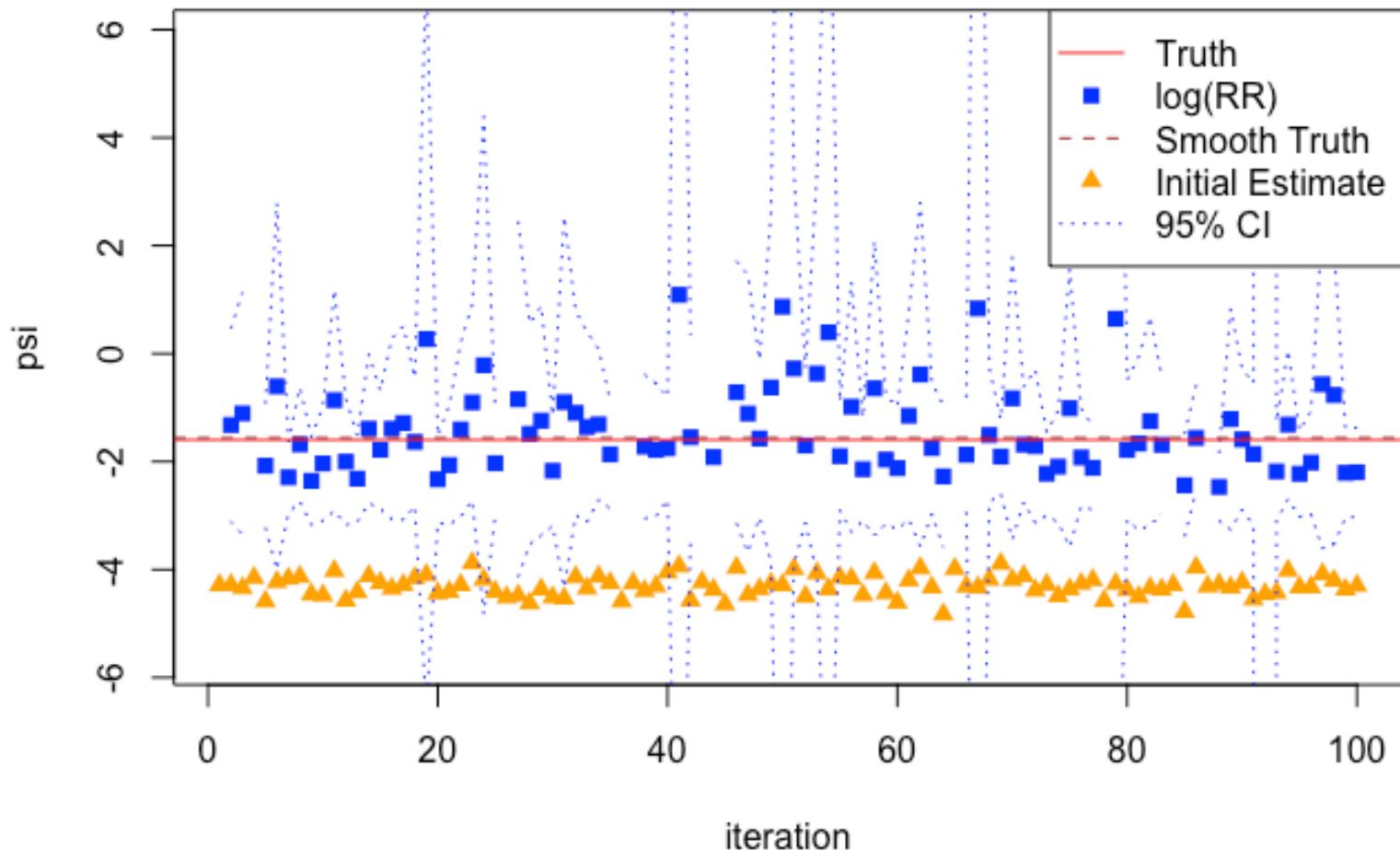
s1=0.9 Null case for cor(S1,W)=0.25, crossover rate=0.25, sample rate=0.25



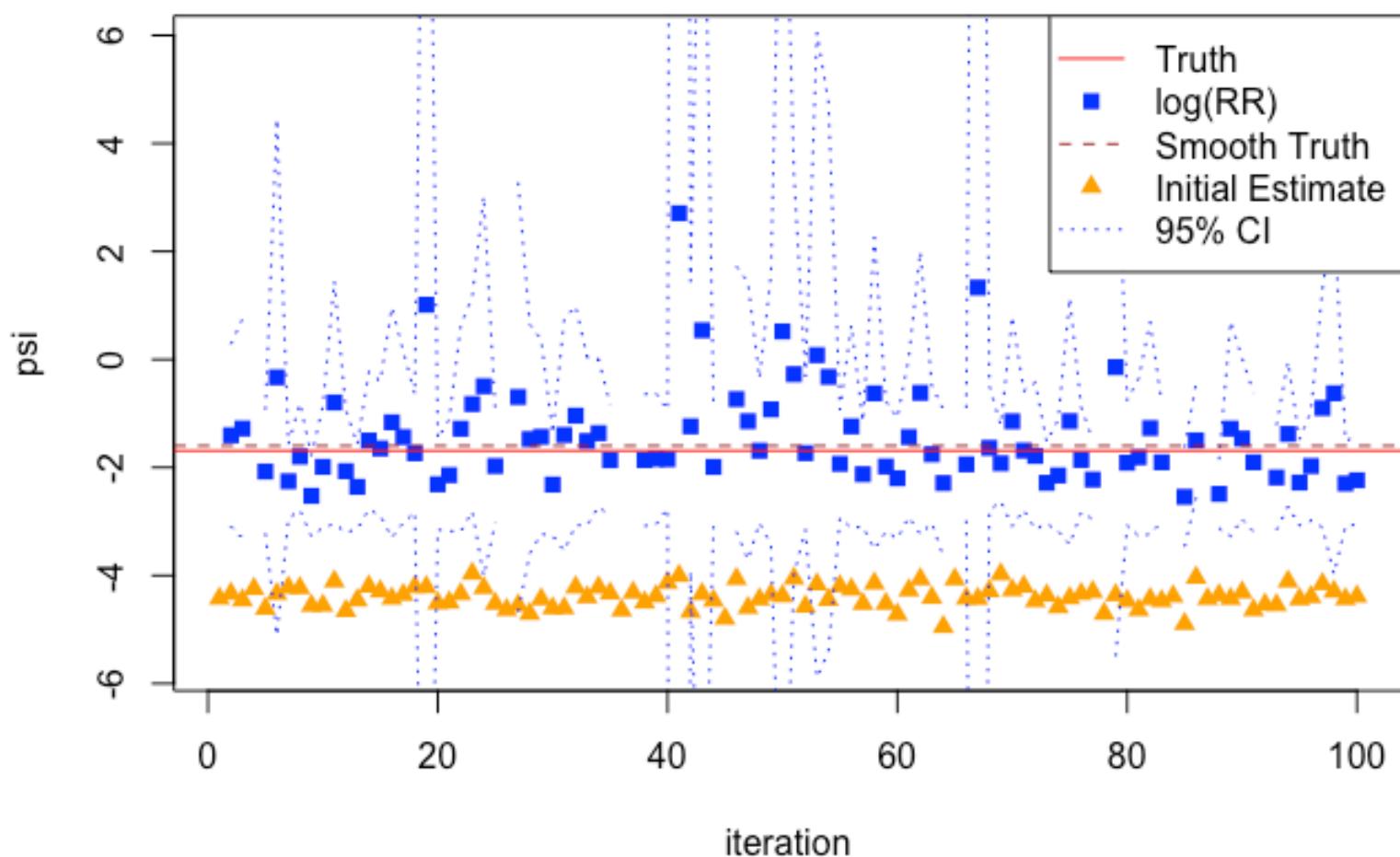
s1=1 Null case for cor(S1,W)=0.25, crossover rate=0.25, sample rate=0.25



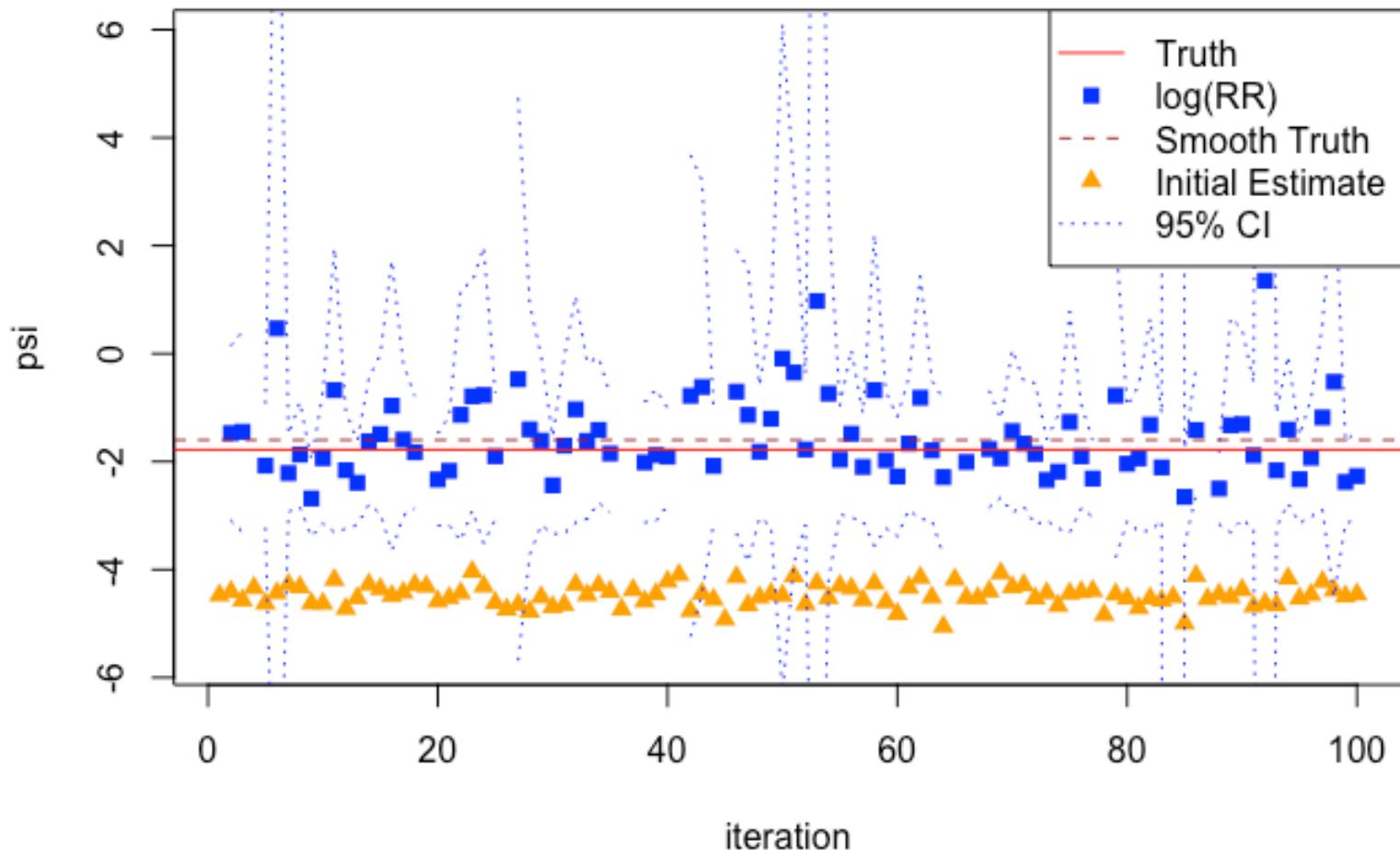
s1=0 Alternative case for $\text{cor}(S1,W)=0.25$, crossover rate=0.25, sample rate=0.25



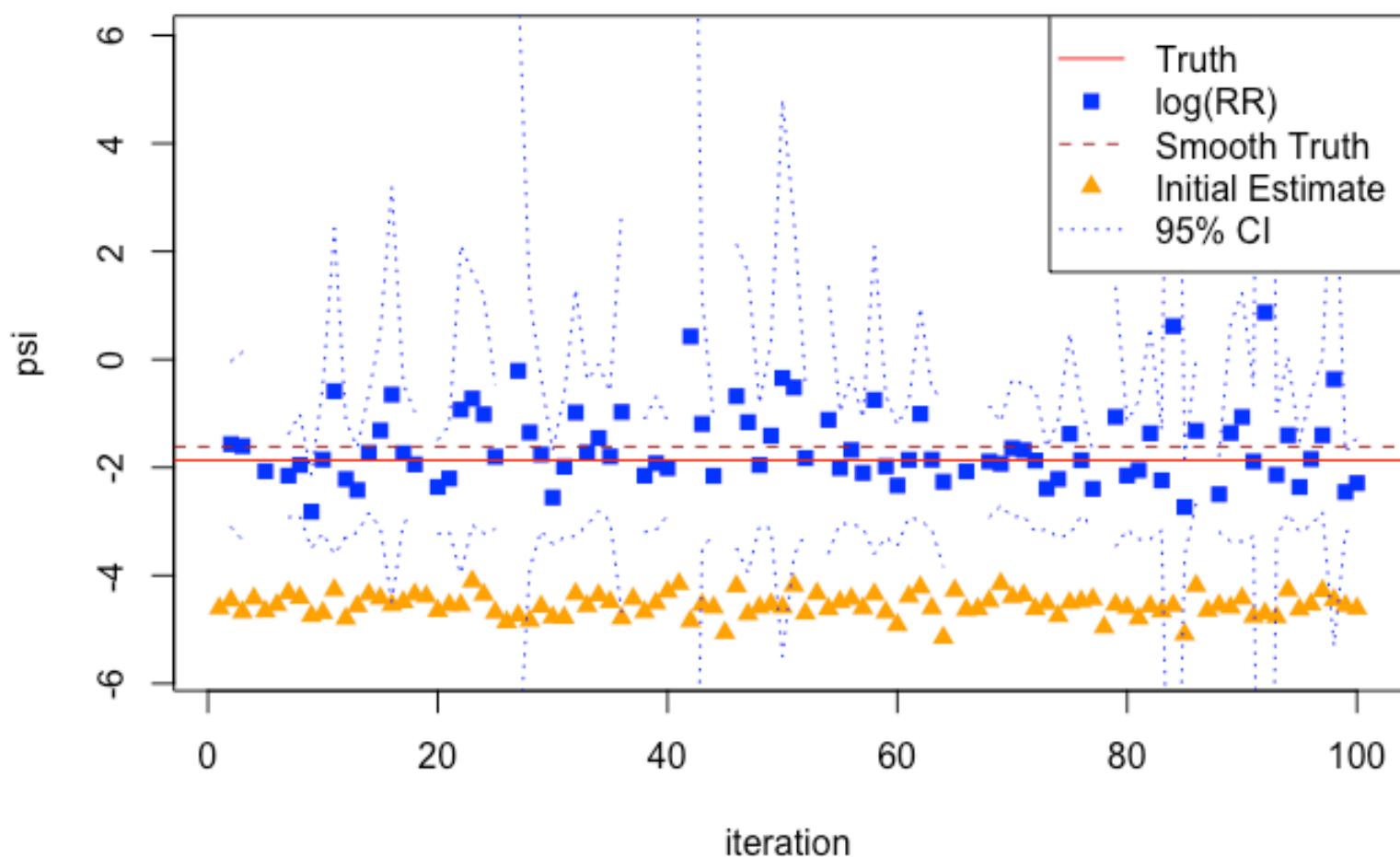
s1=0.1 Alternative case for $\text{cor}(S1,W)=0.25$, crossover rate=0.25, sample rate=0.25



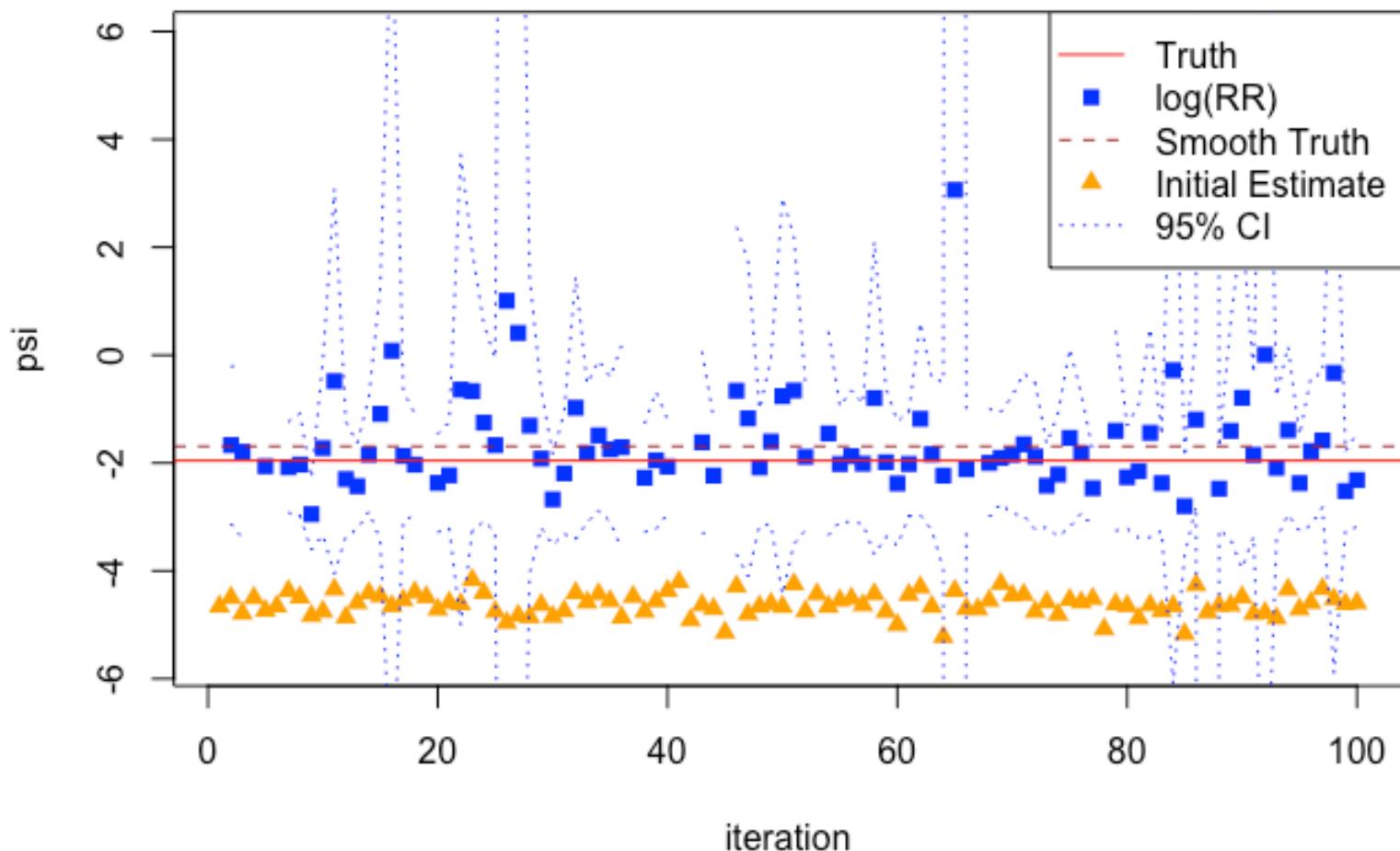
$s_1=0.2$ Alternative case for $\text{cor}(S1, W)=0.25$, crossover rate=0.25, sample rate=0.25



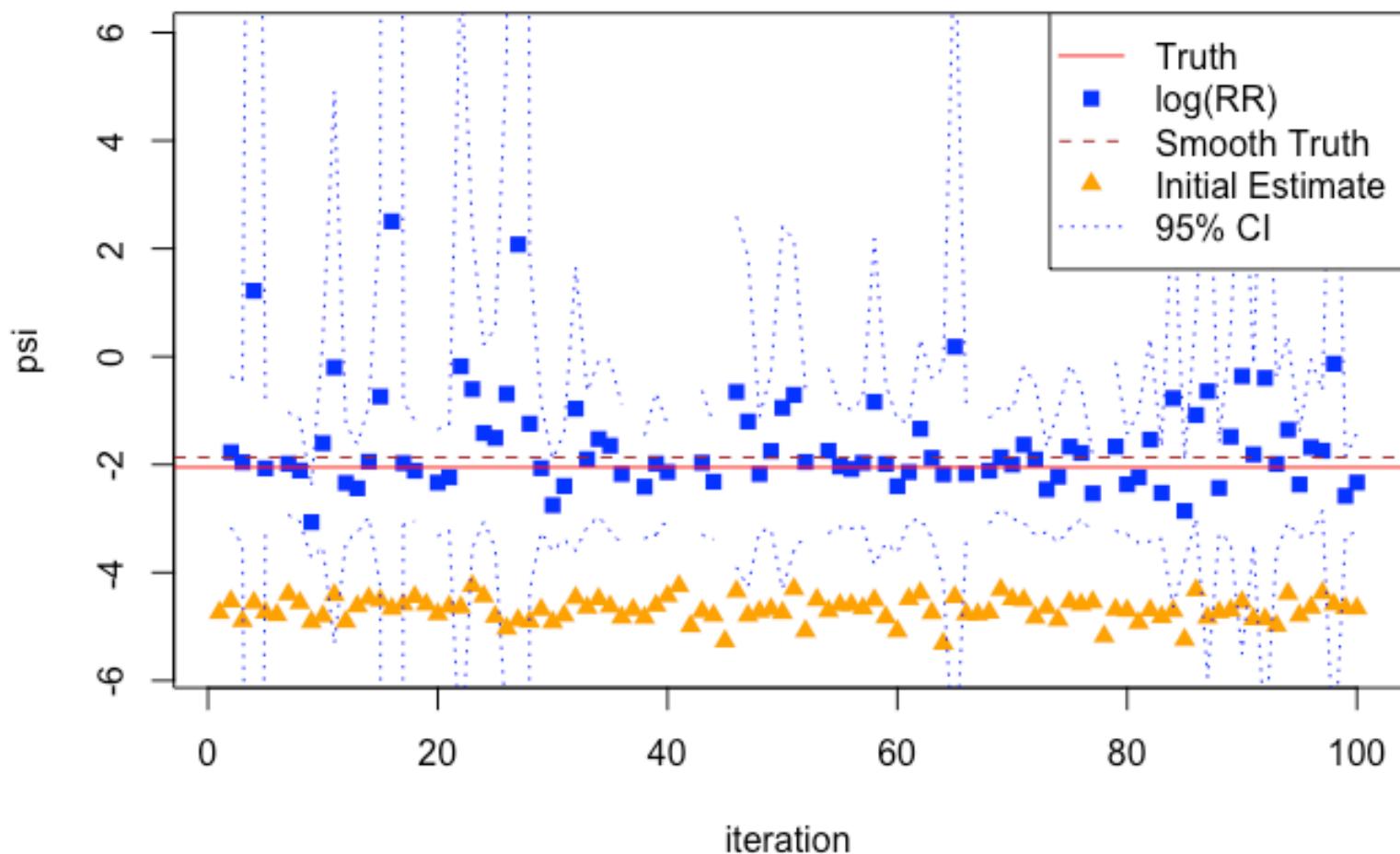
$s_1=0.3$ Alternative case for $\text{cor}(S1, W)=0.25$, crossover rate=0.25, sample rate=0.25



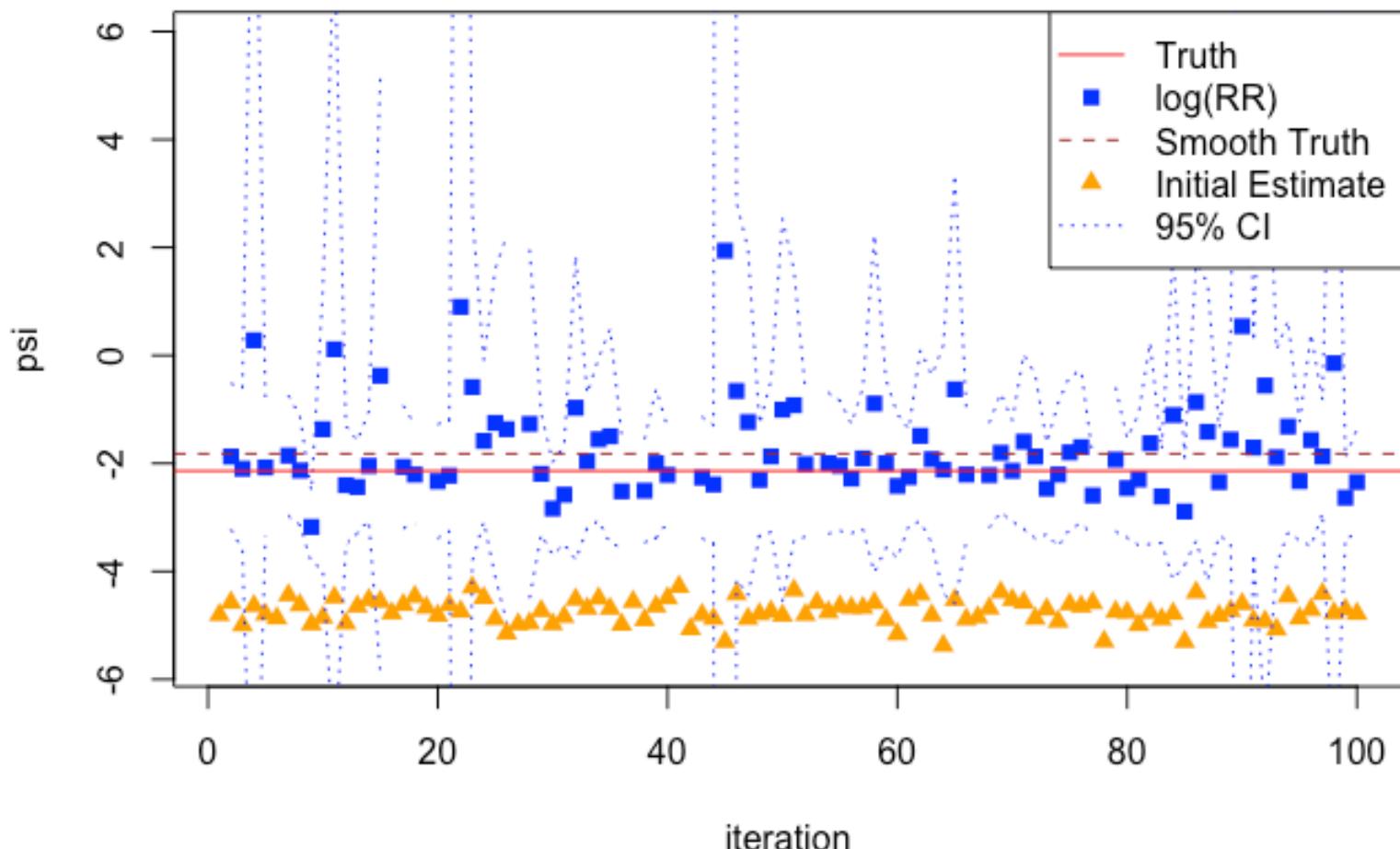
$s_1=0.4$ Alternative case for $\text{cor}(S_1, W)=0.25$, crossover rate=0.25, sample rate=0.25



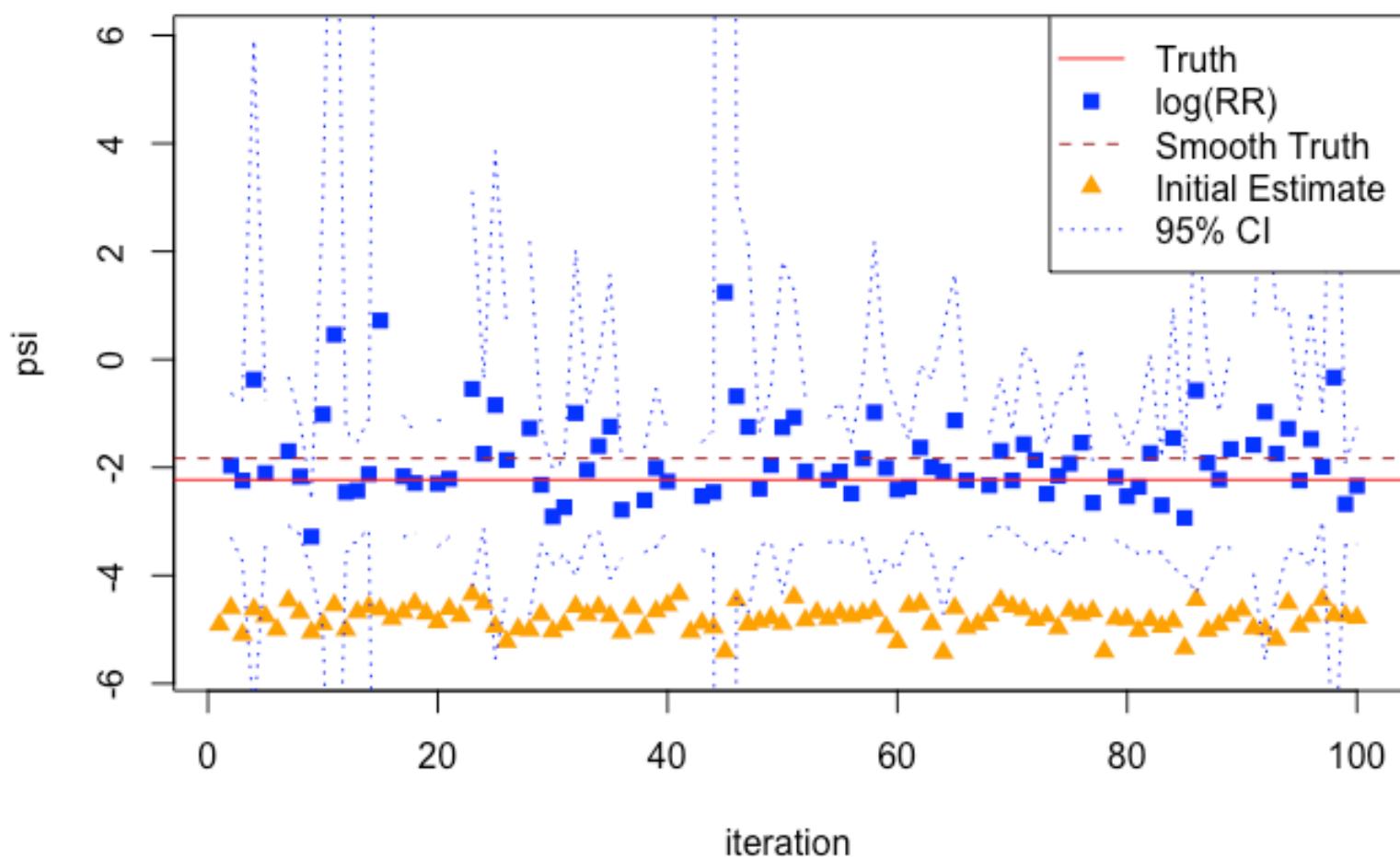
$s_1=0.5$ Alternative case for $\text{cor}(S_1, W)=0.25$, crossover rate=0.25, sample rate=0.25



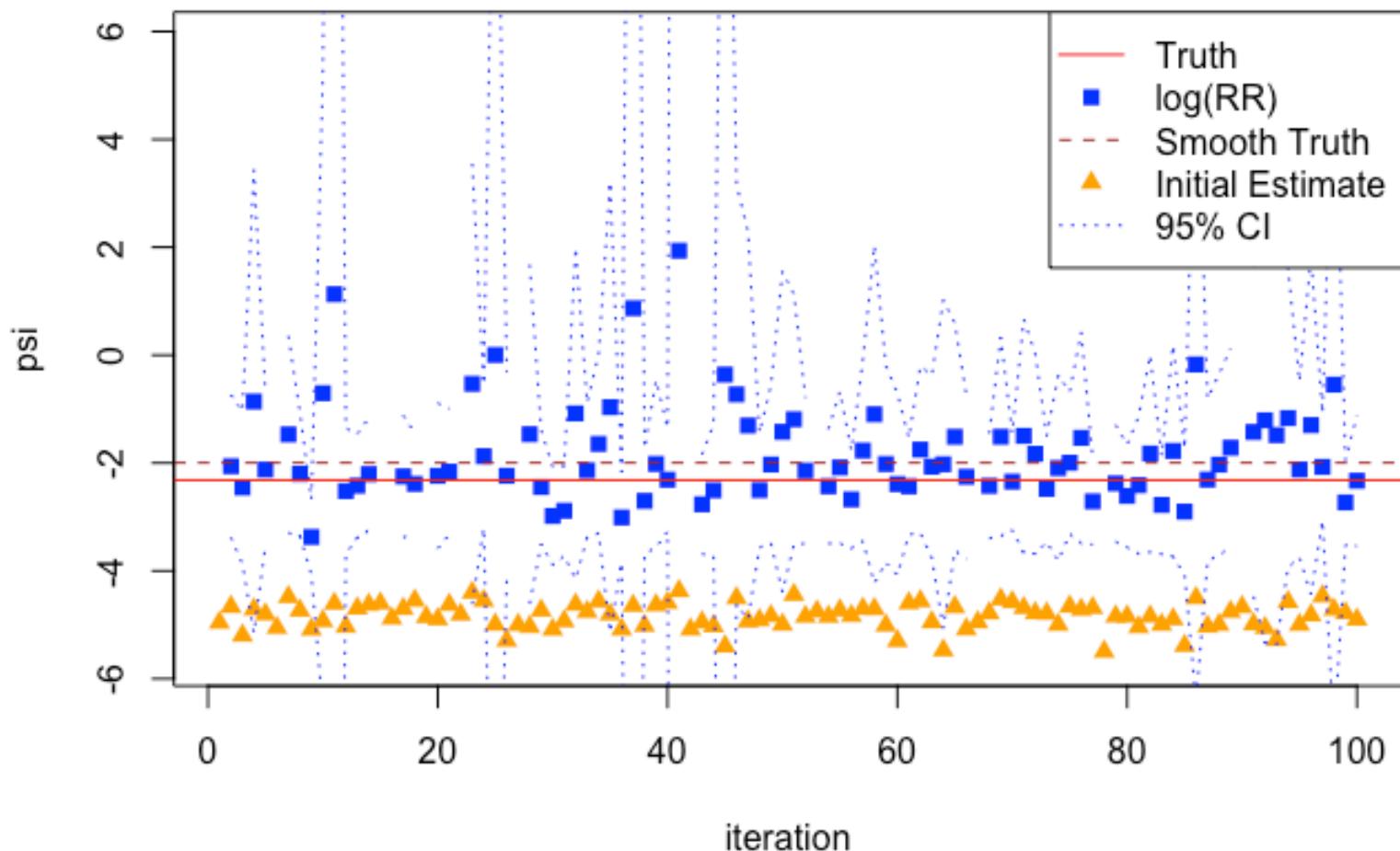
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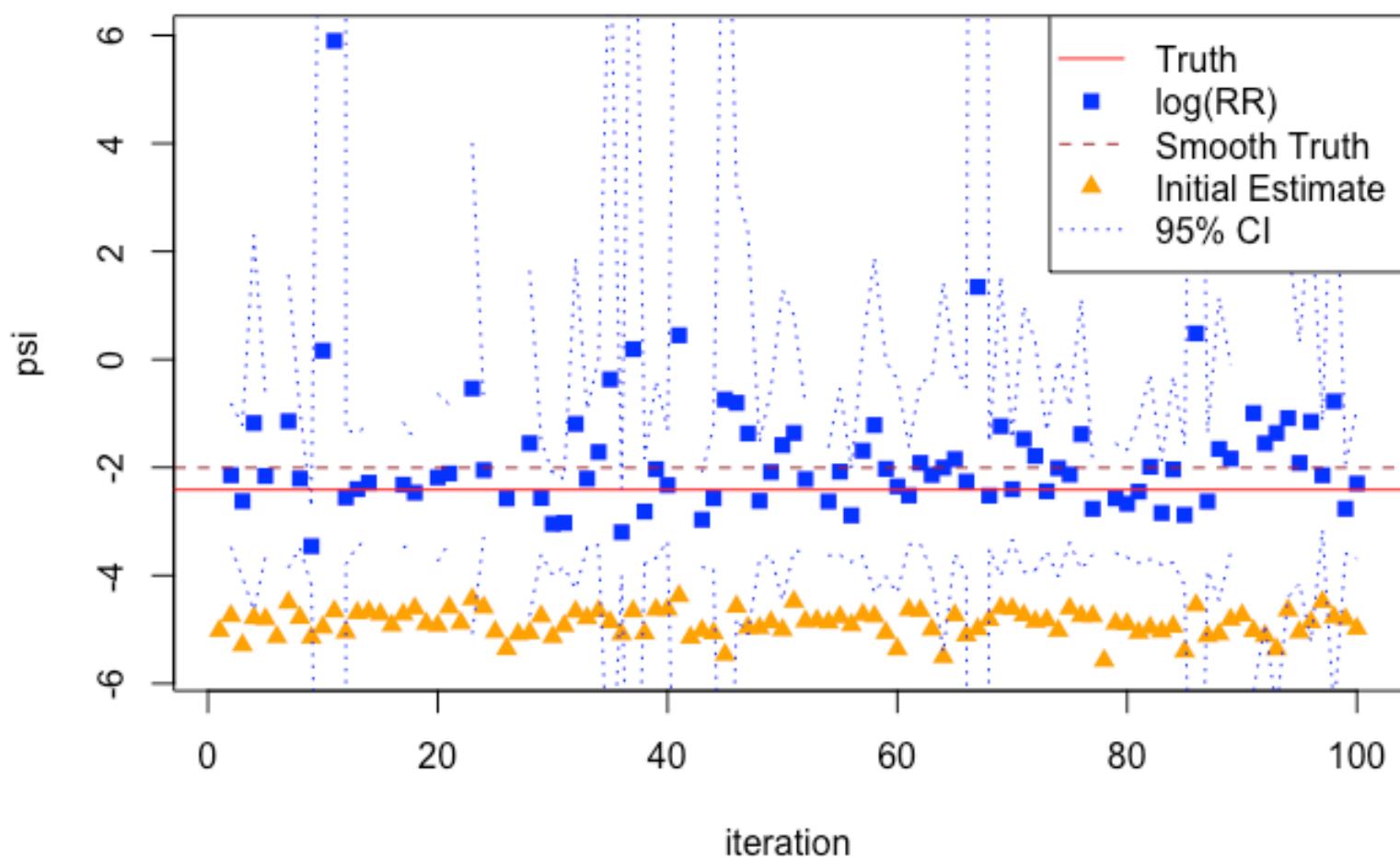
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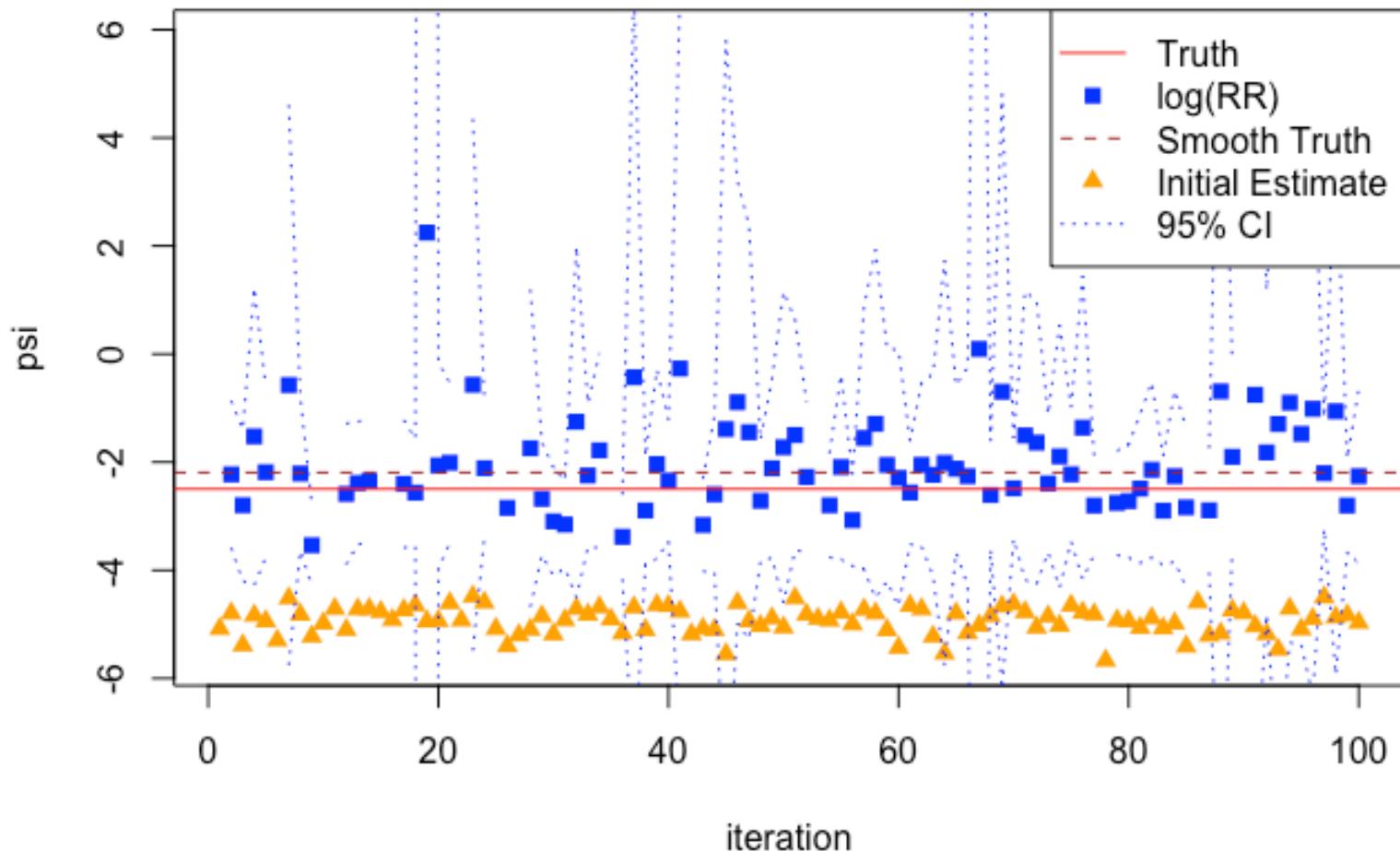
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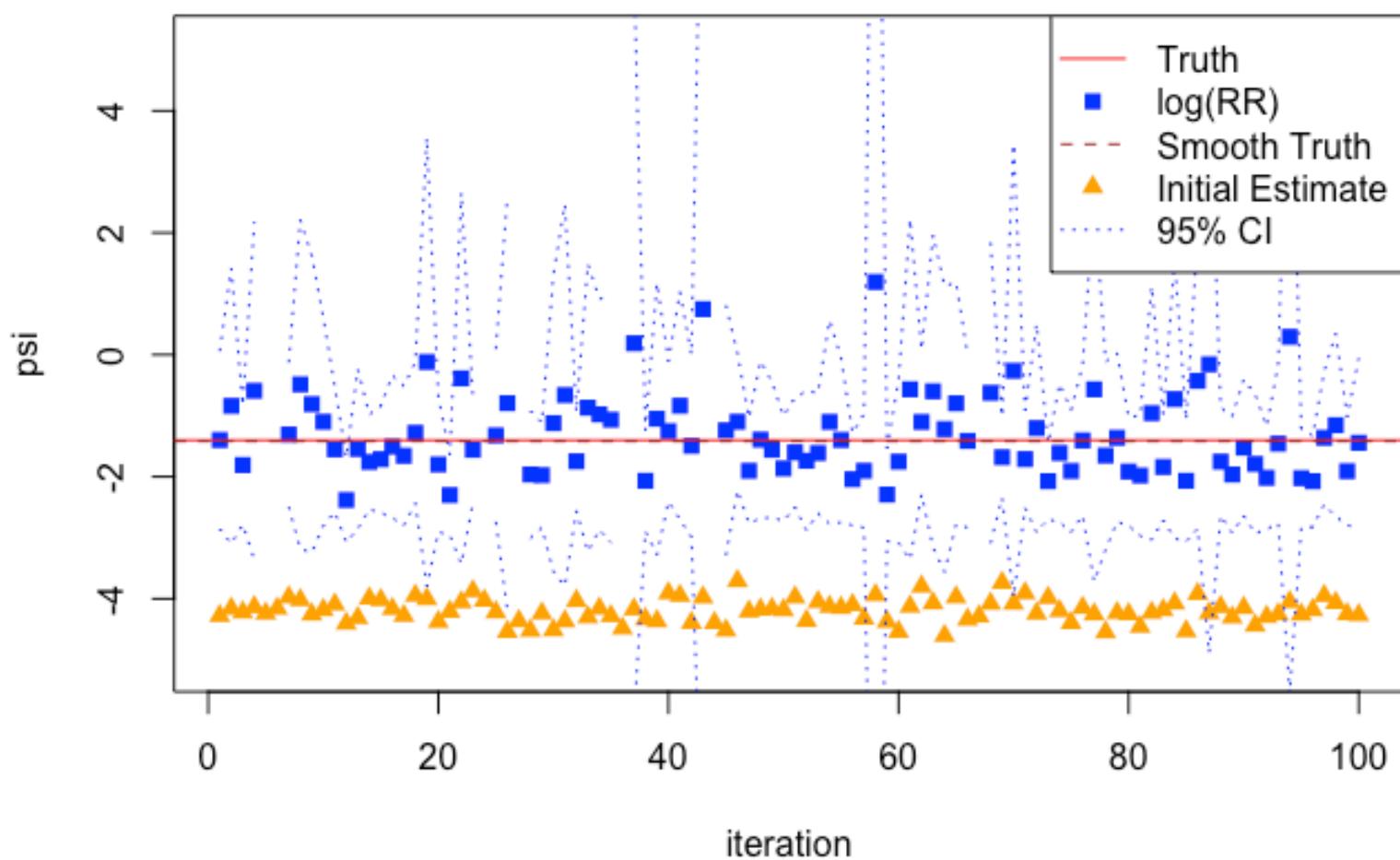
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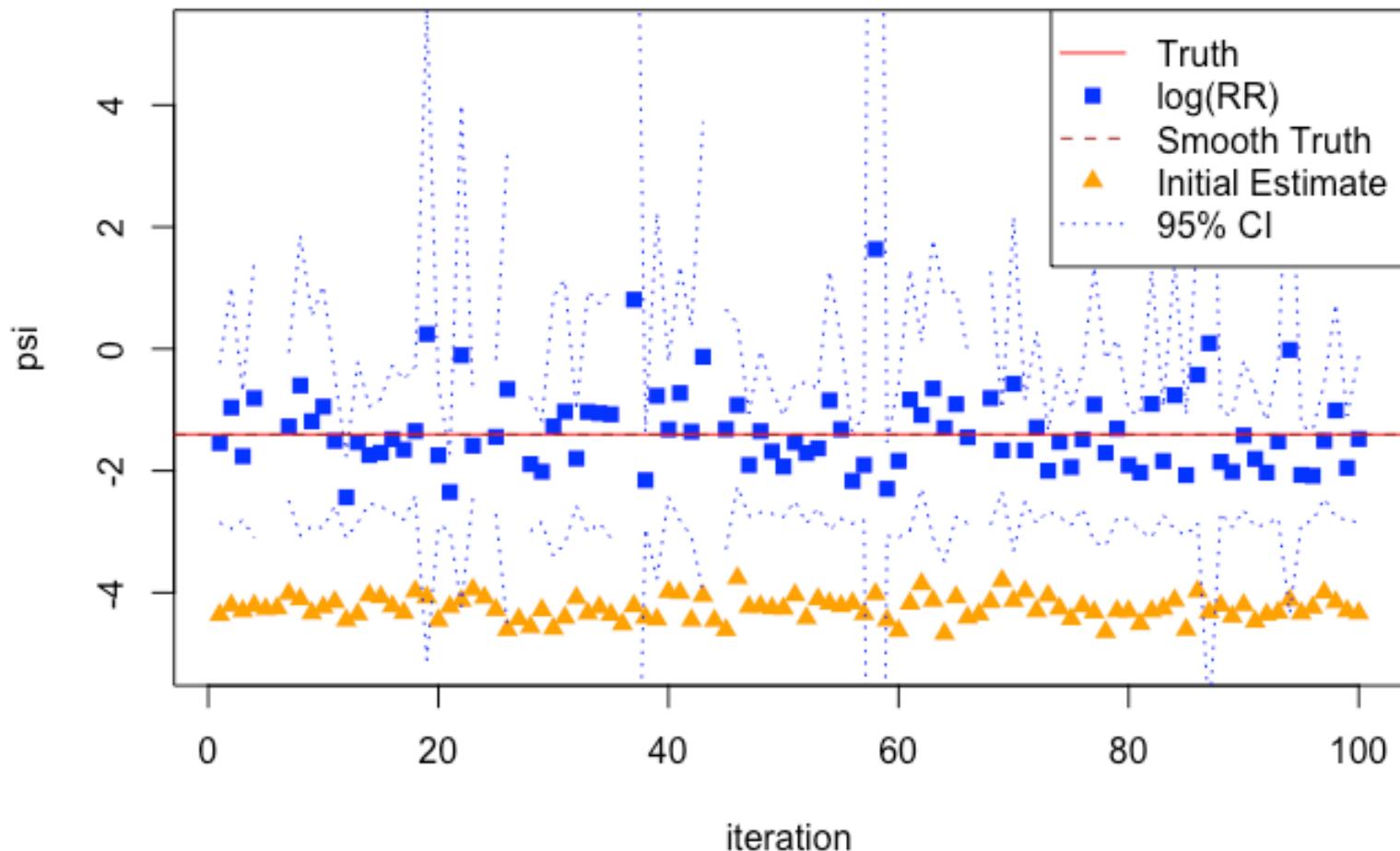
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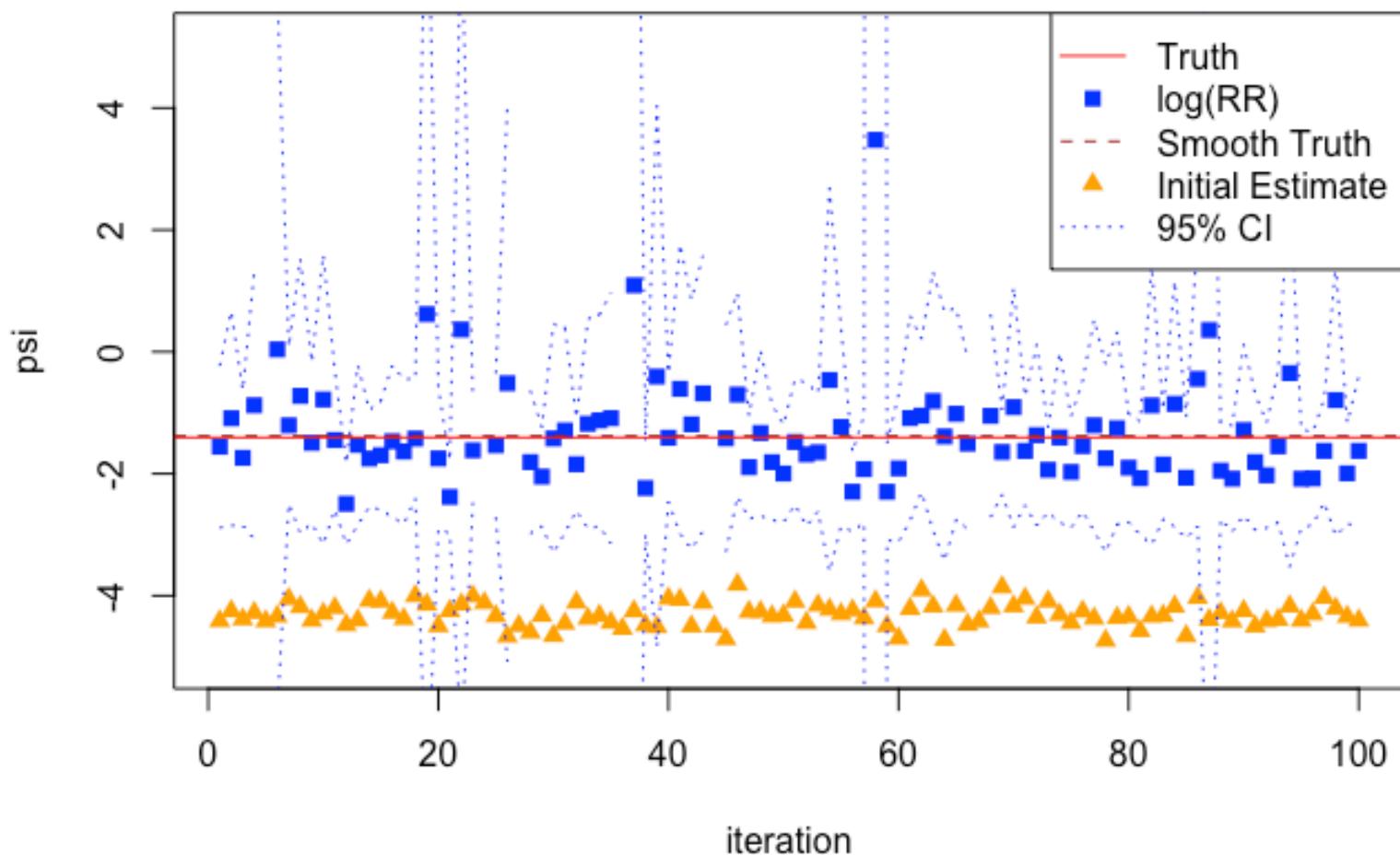
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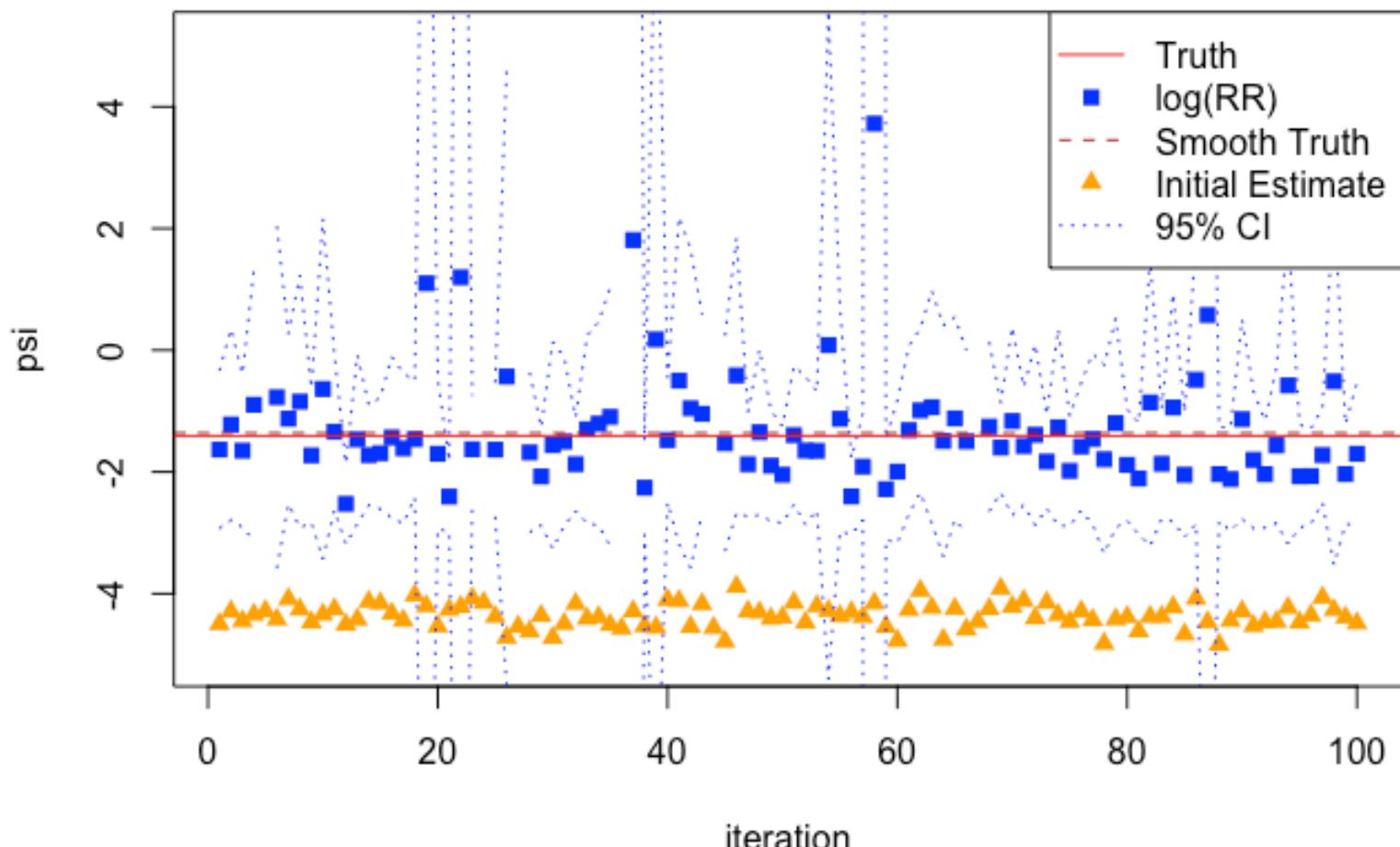
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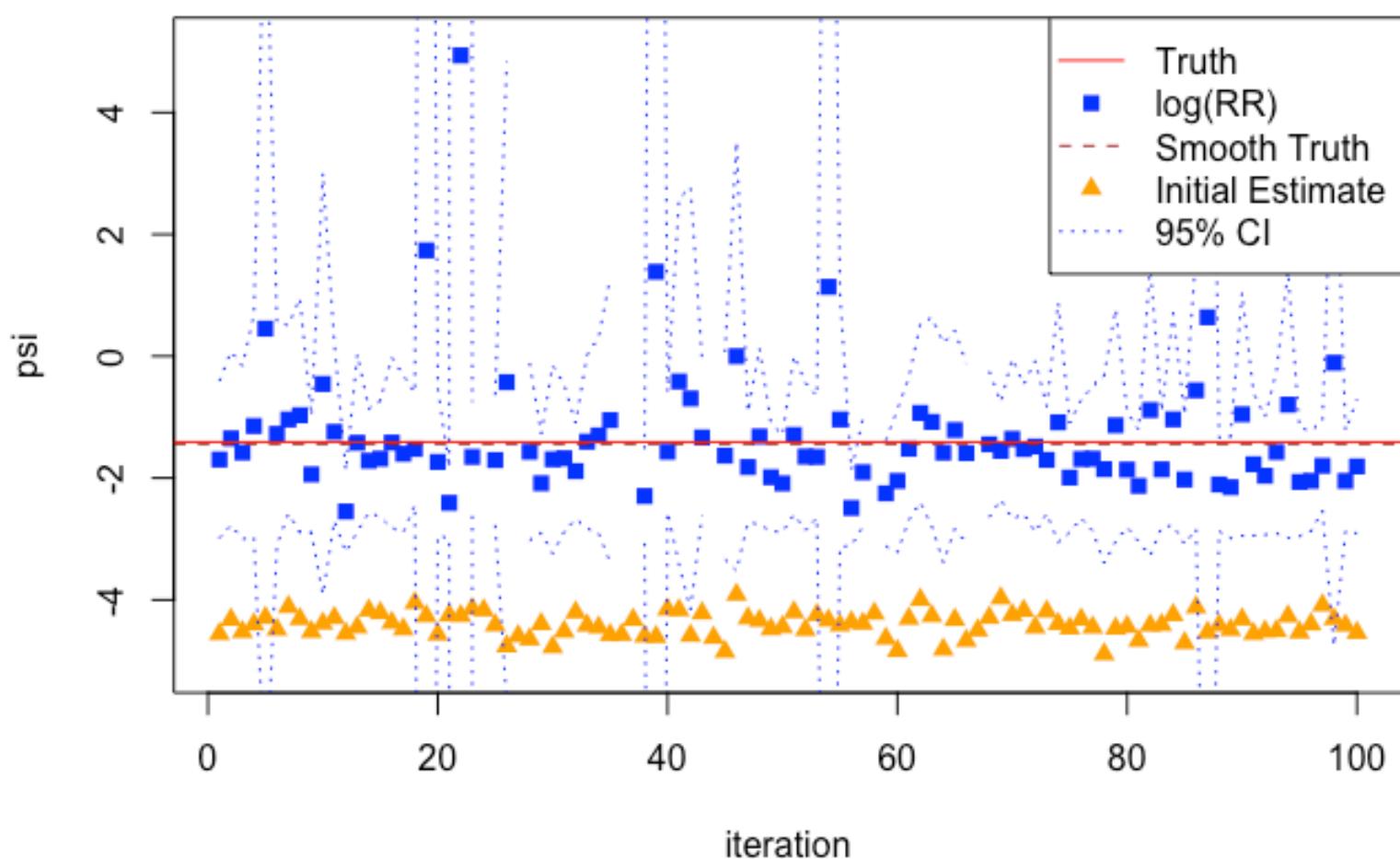
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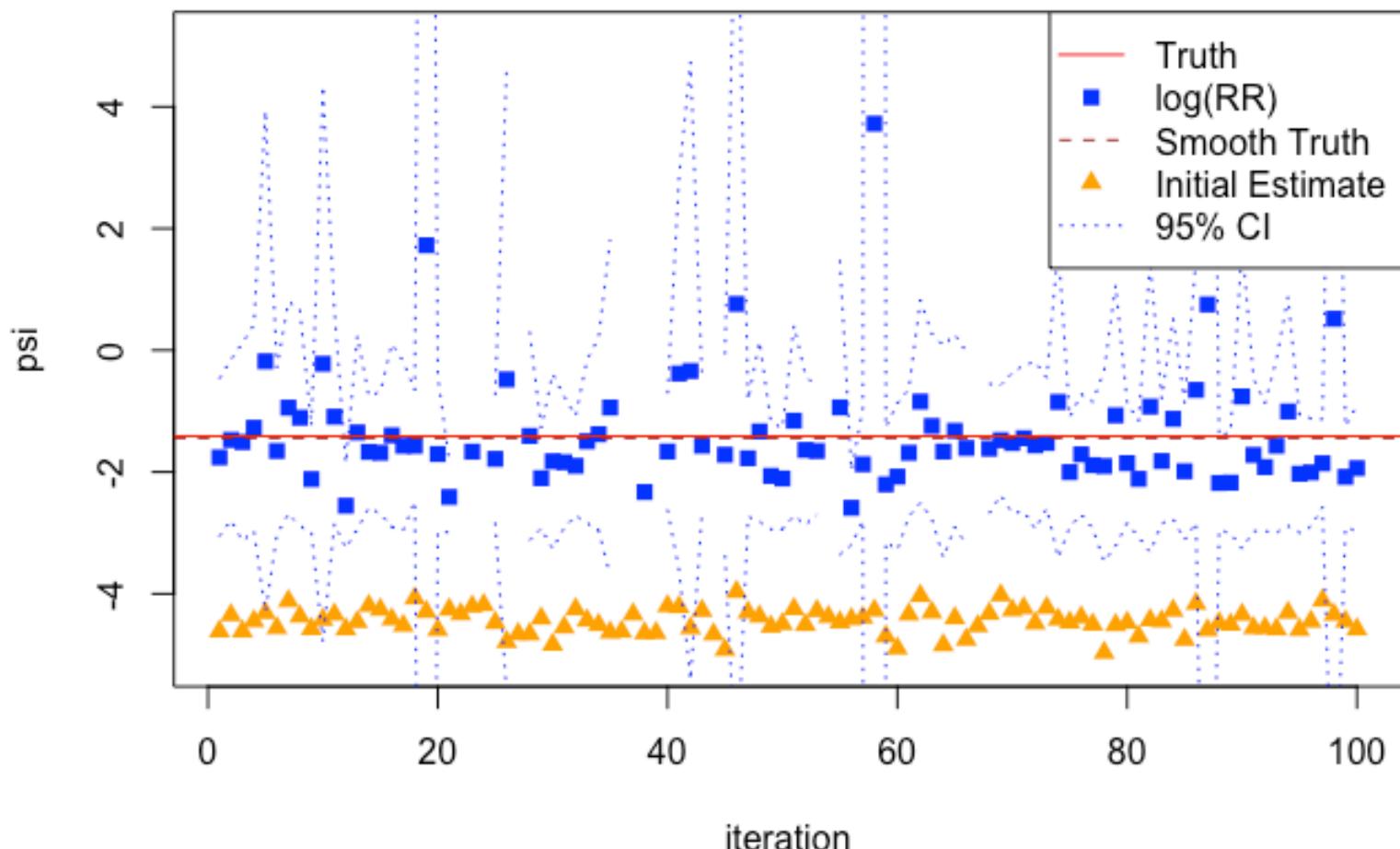
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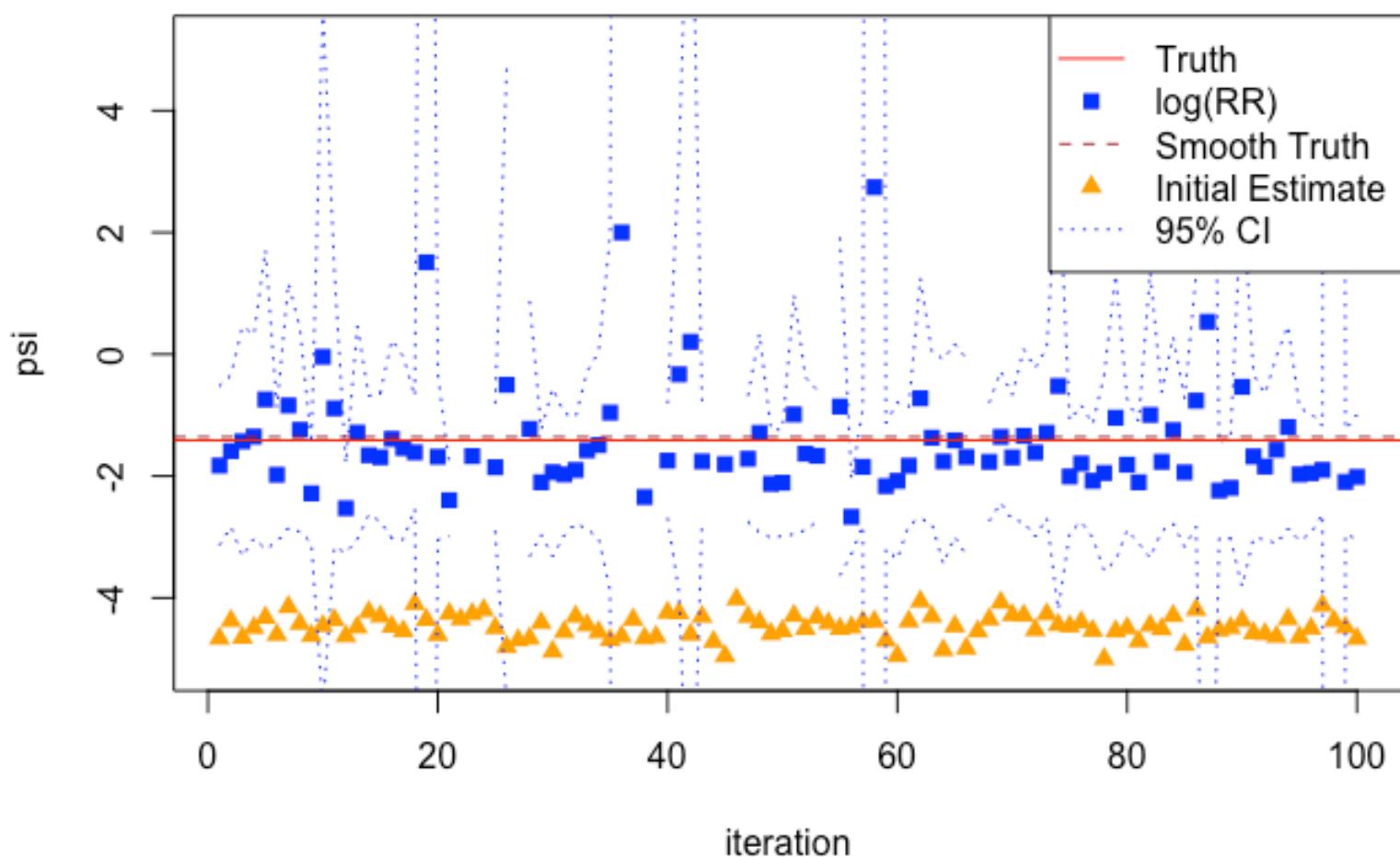
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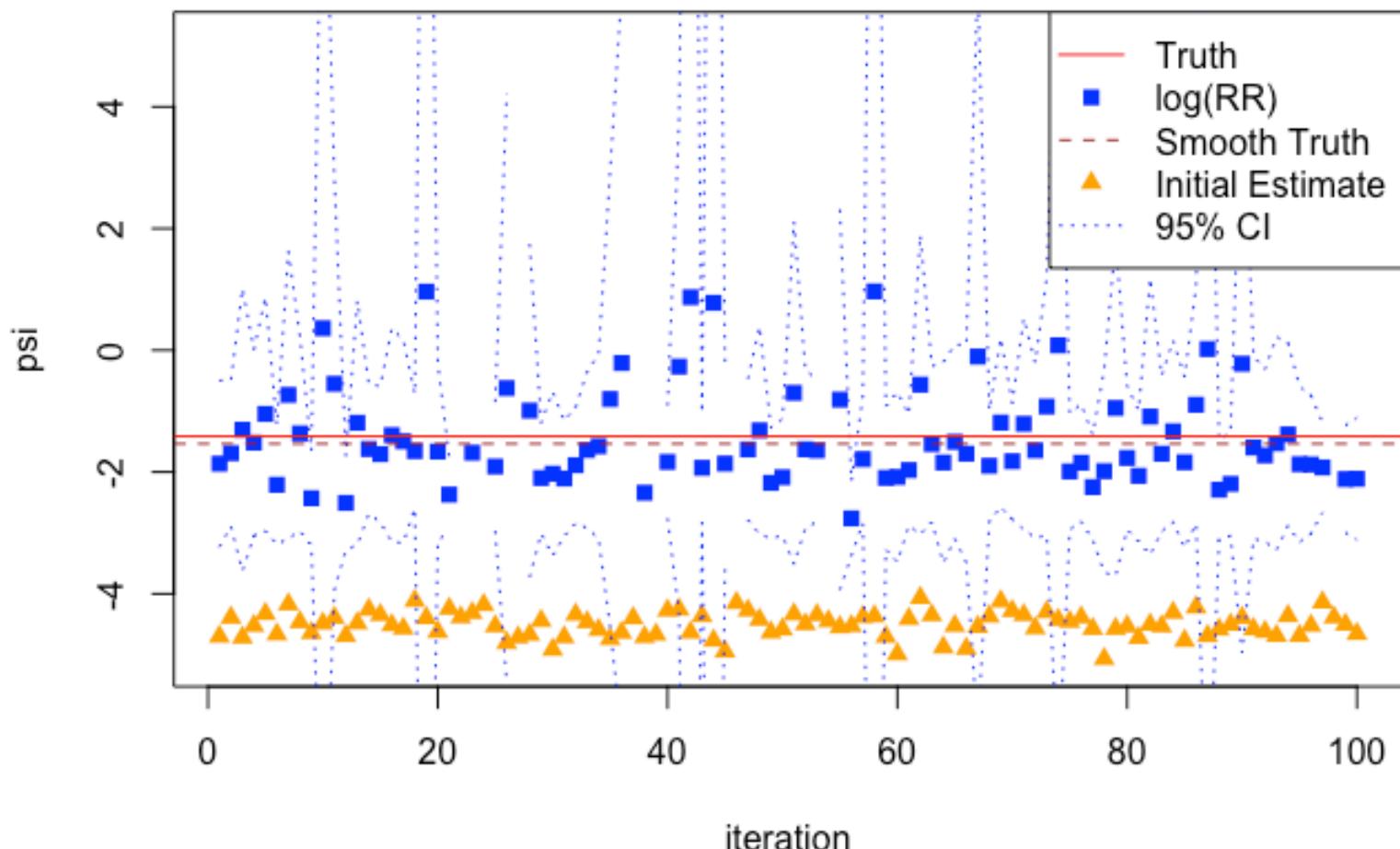
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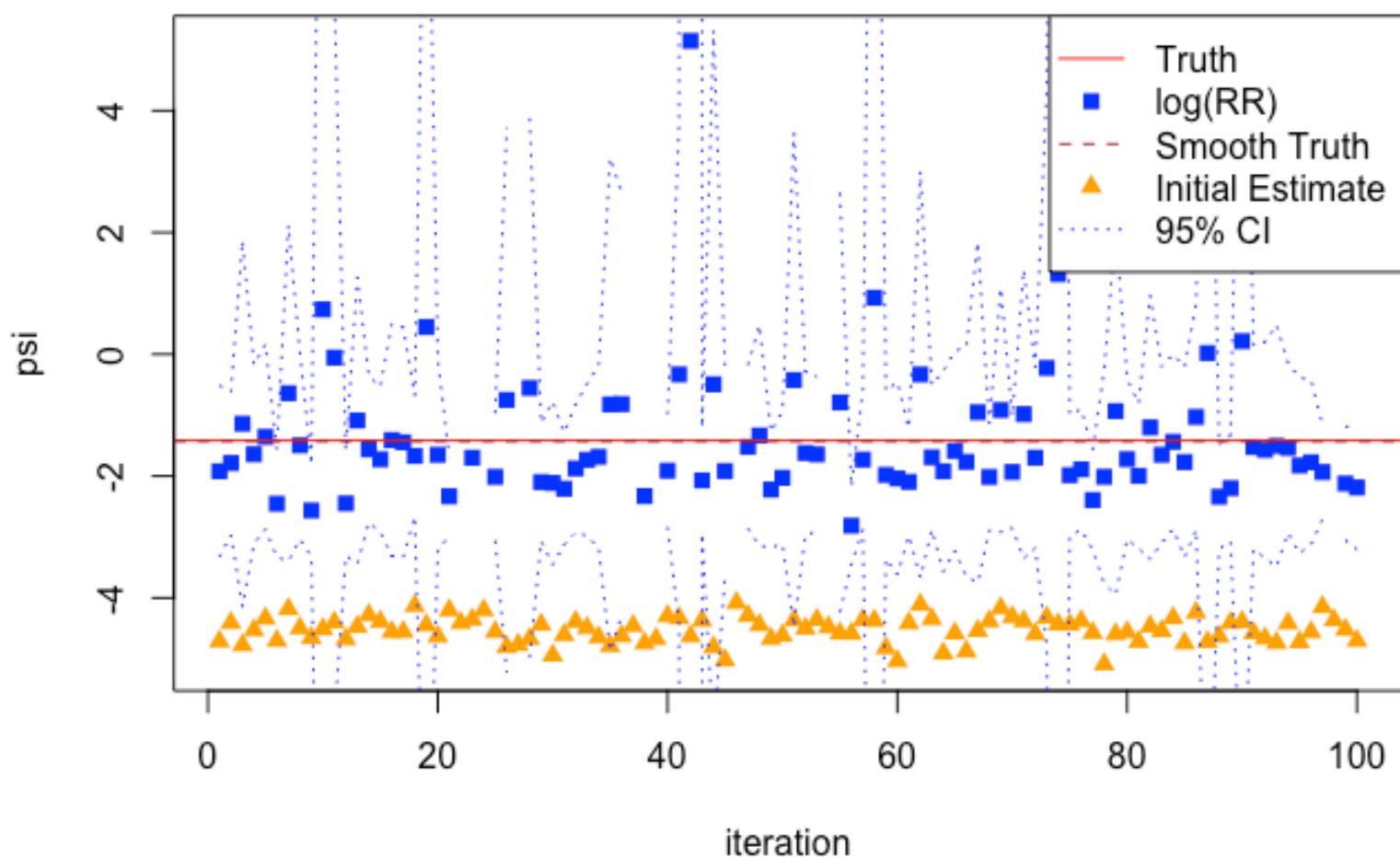
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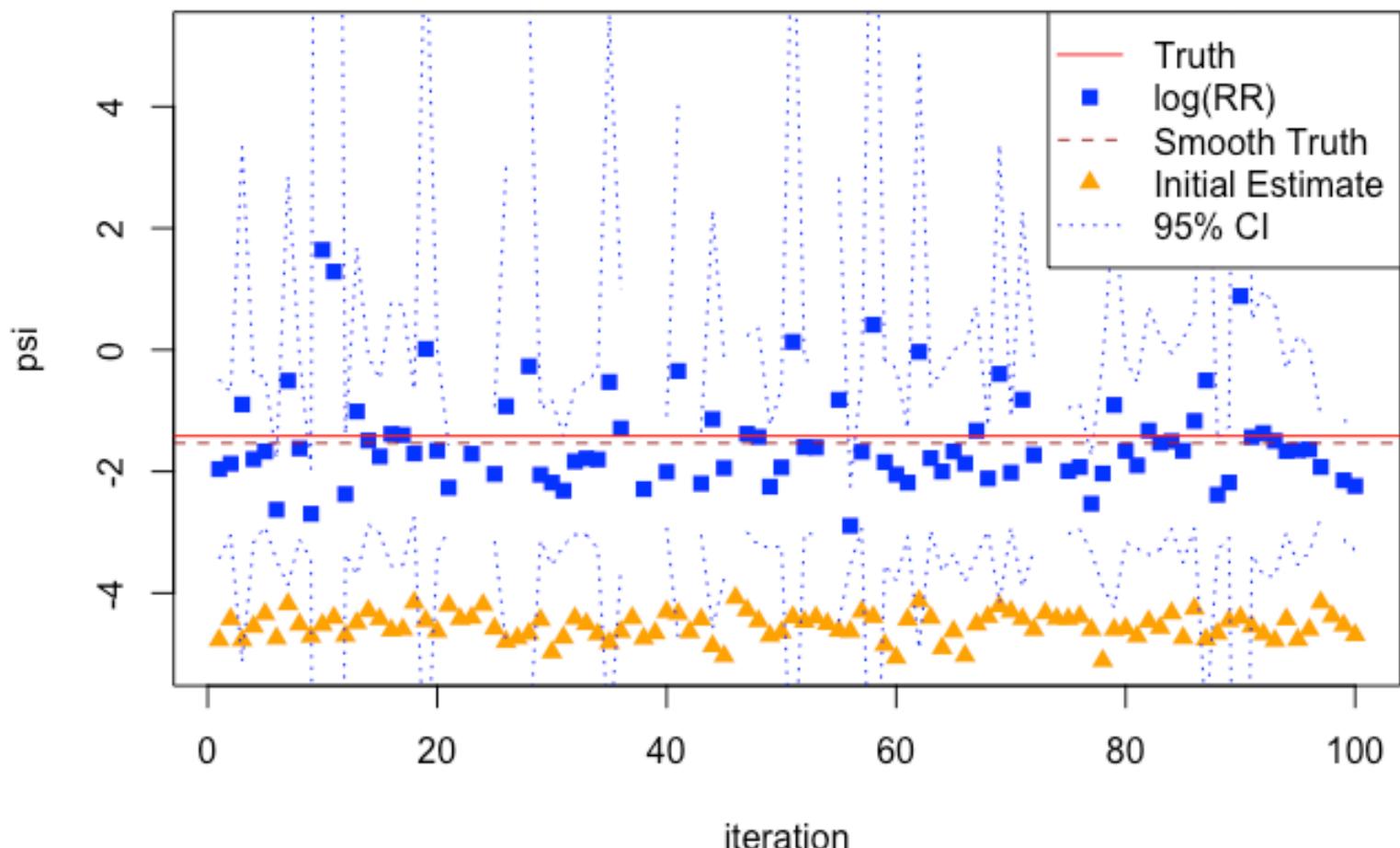
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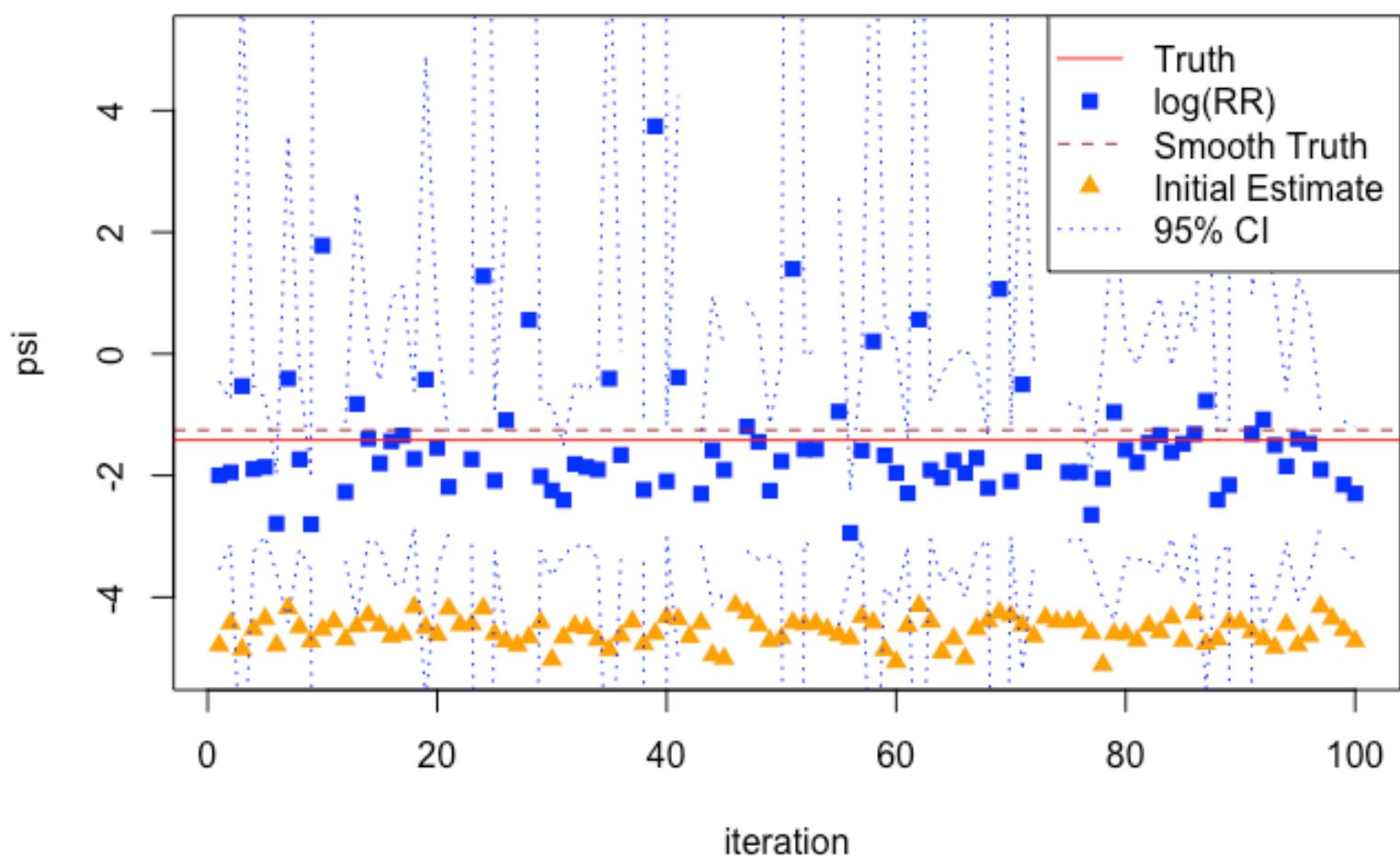
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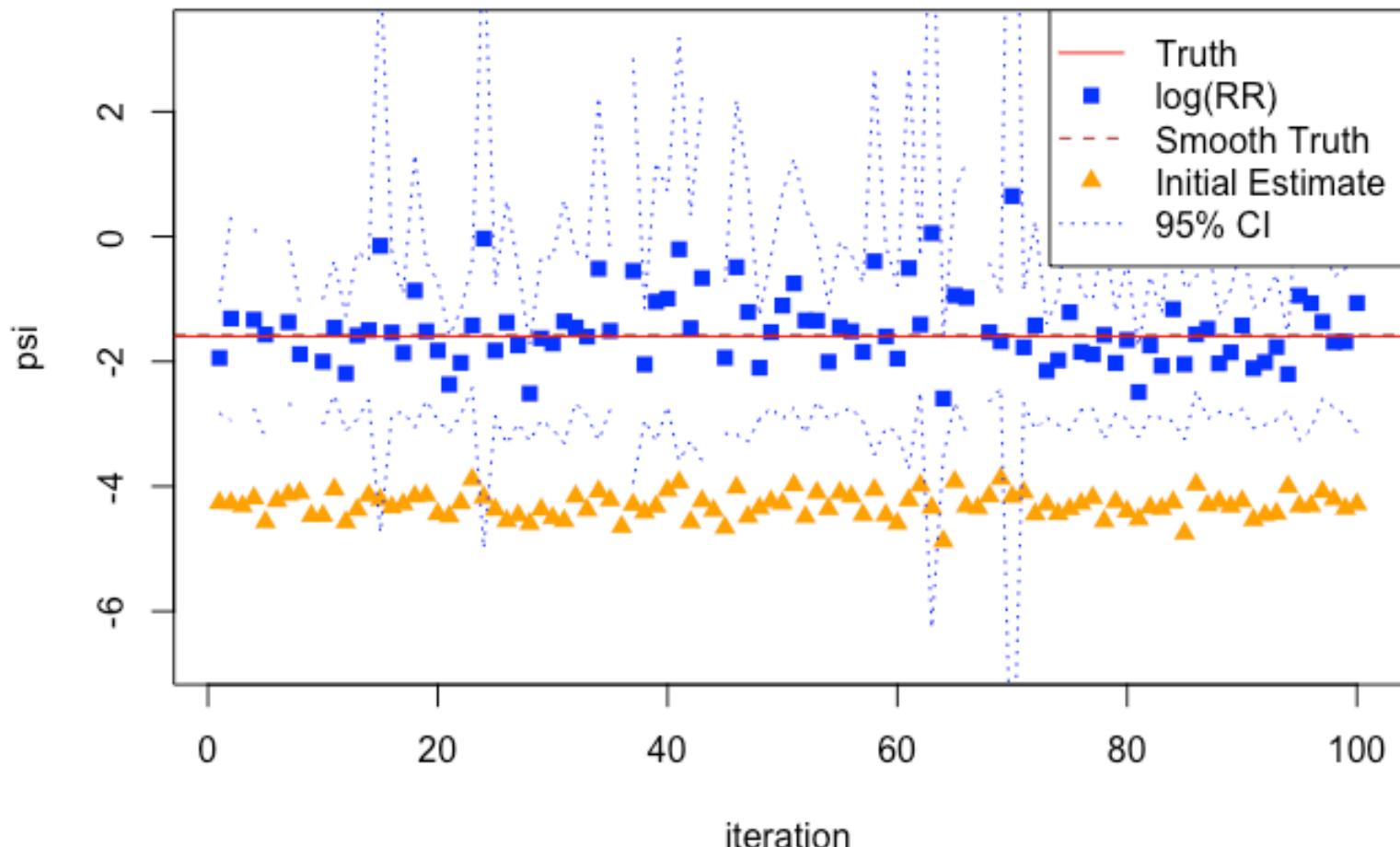
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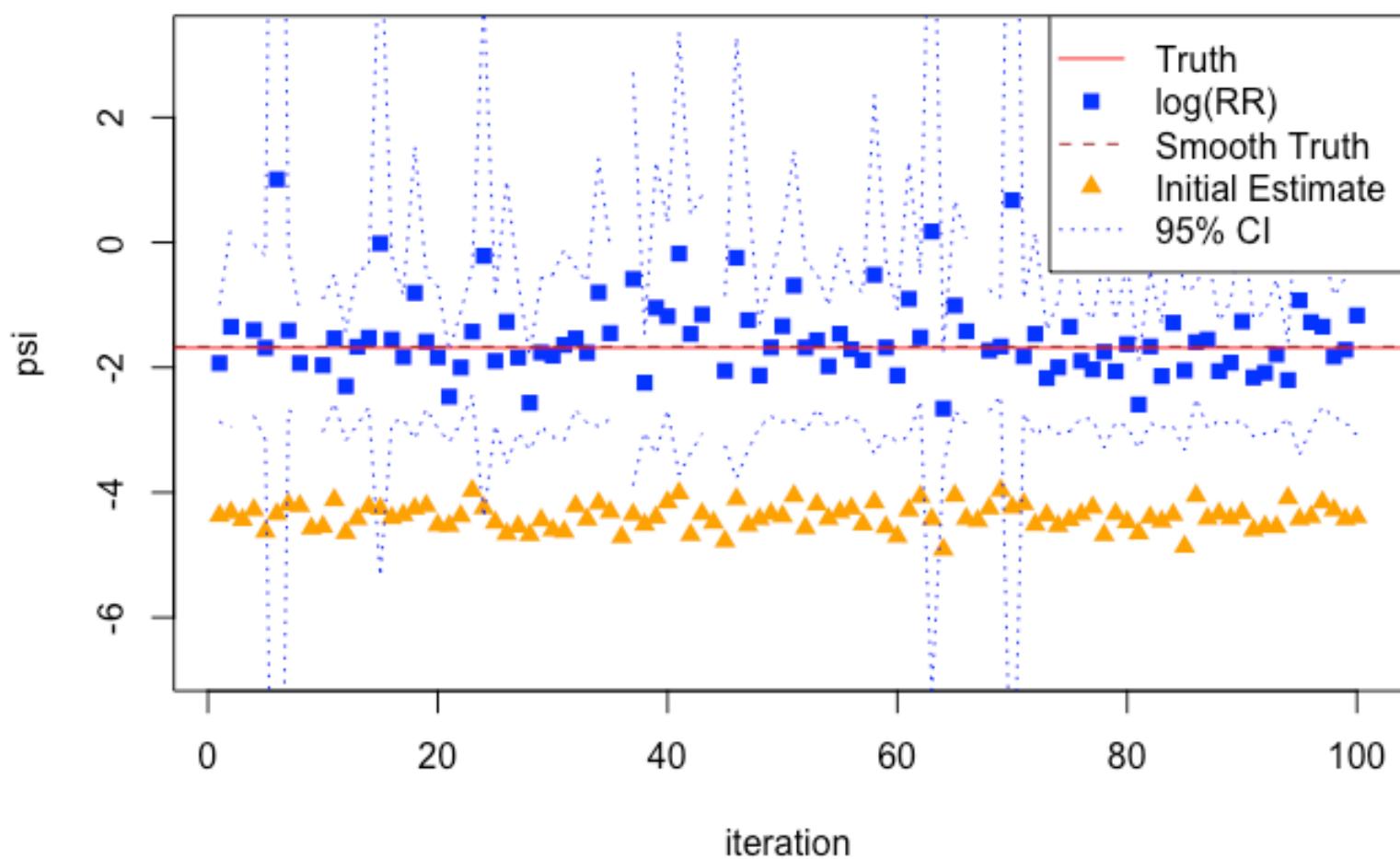
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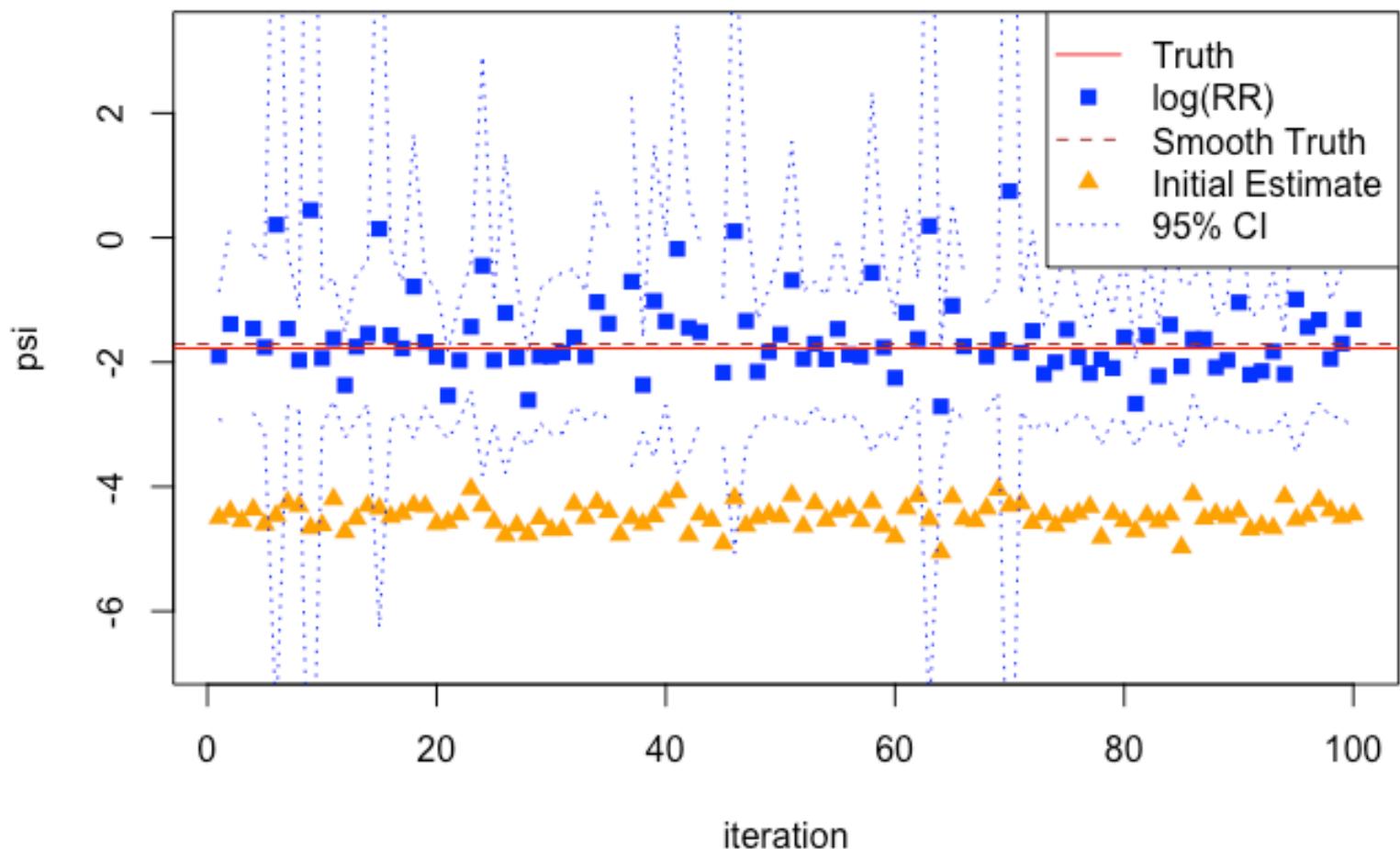
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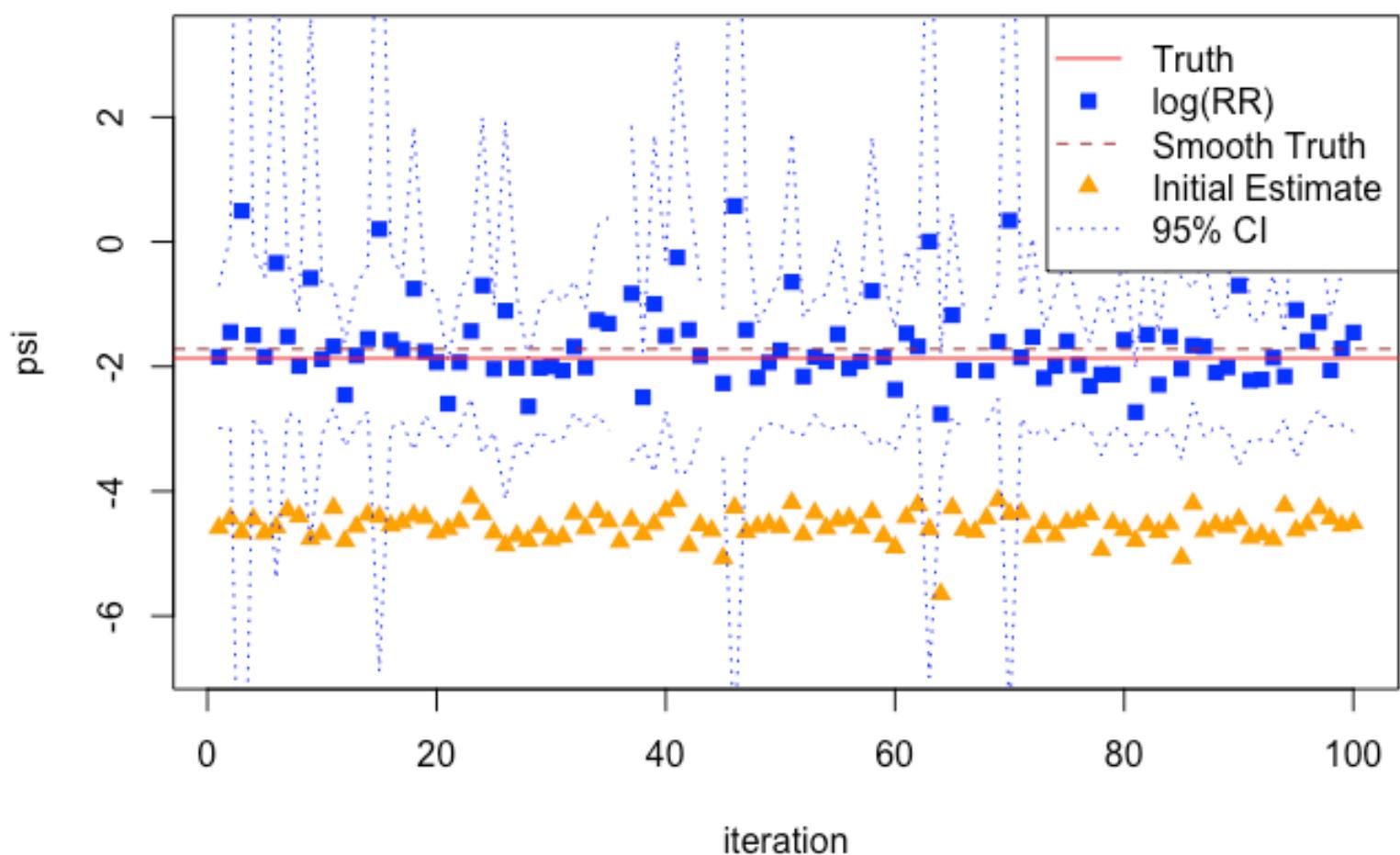
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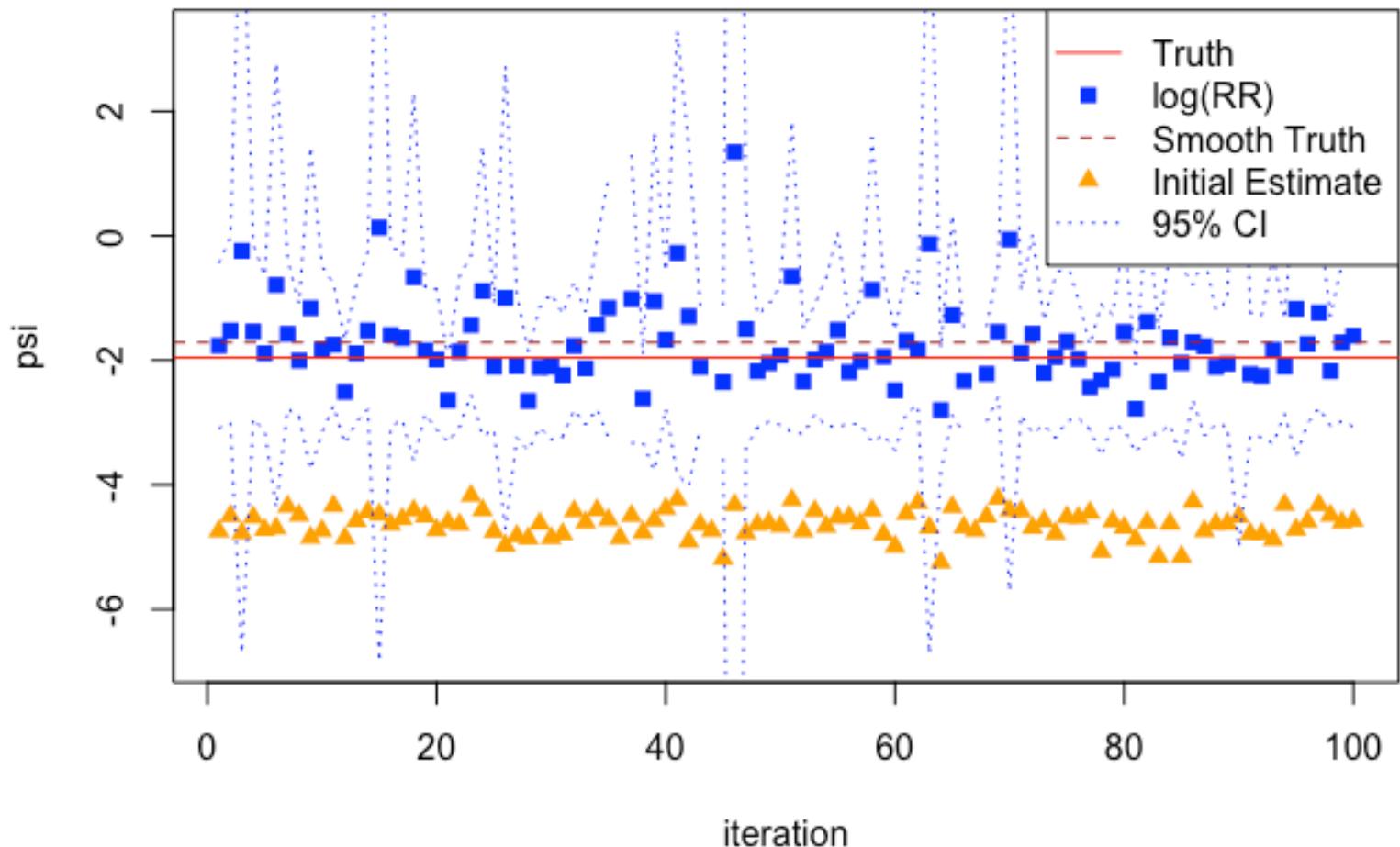
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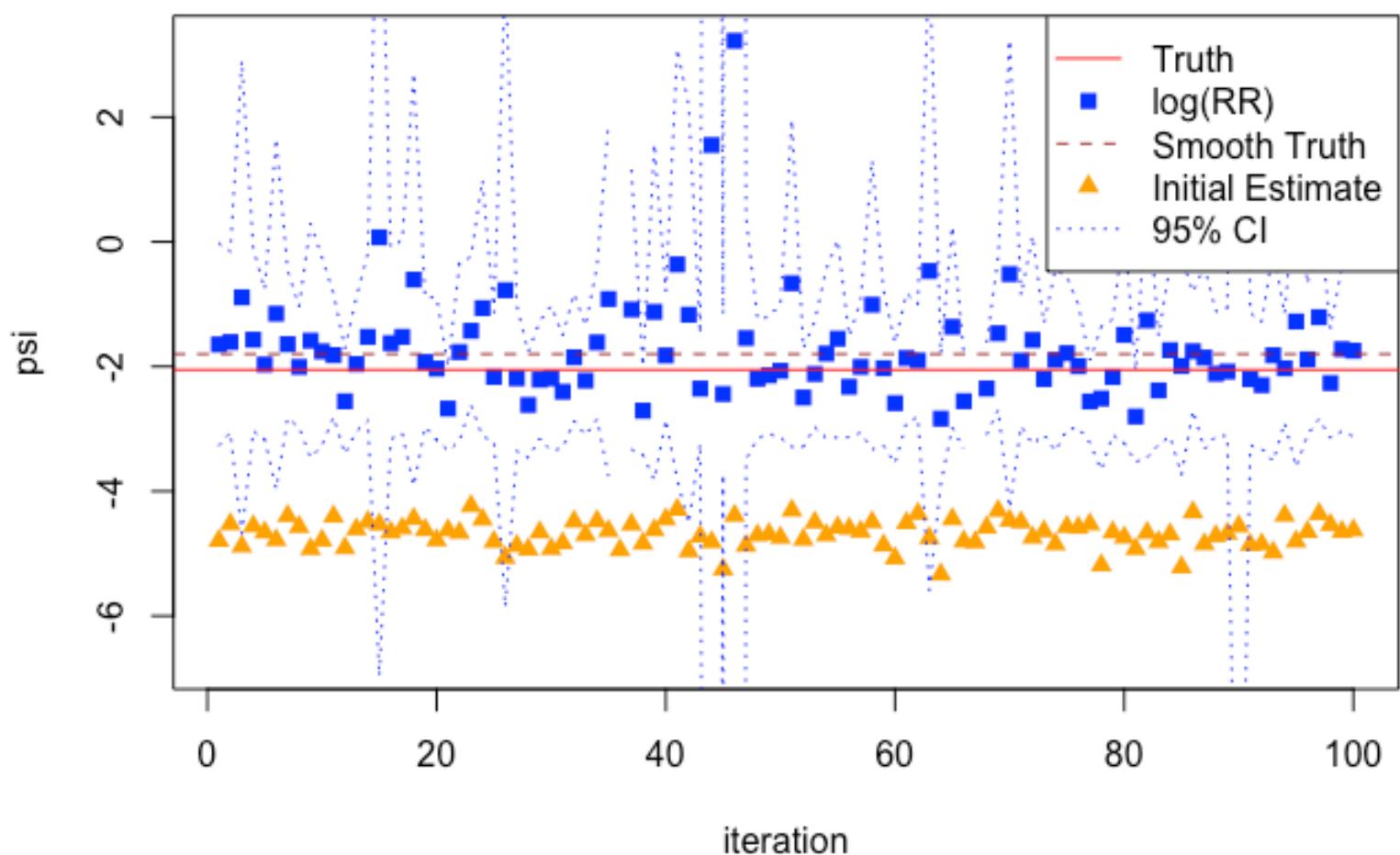
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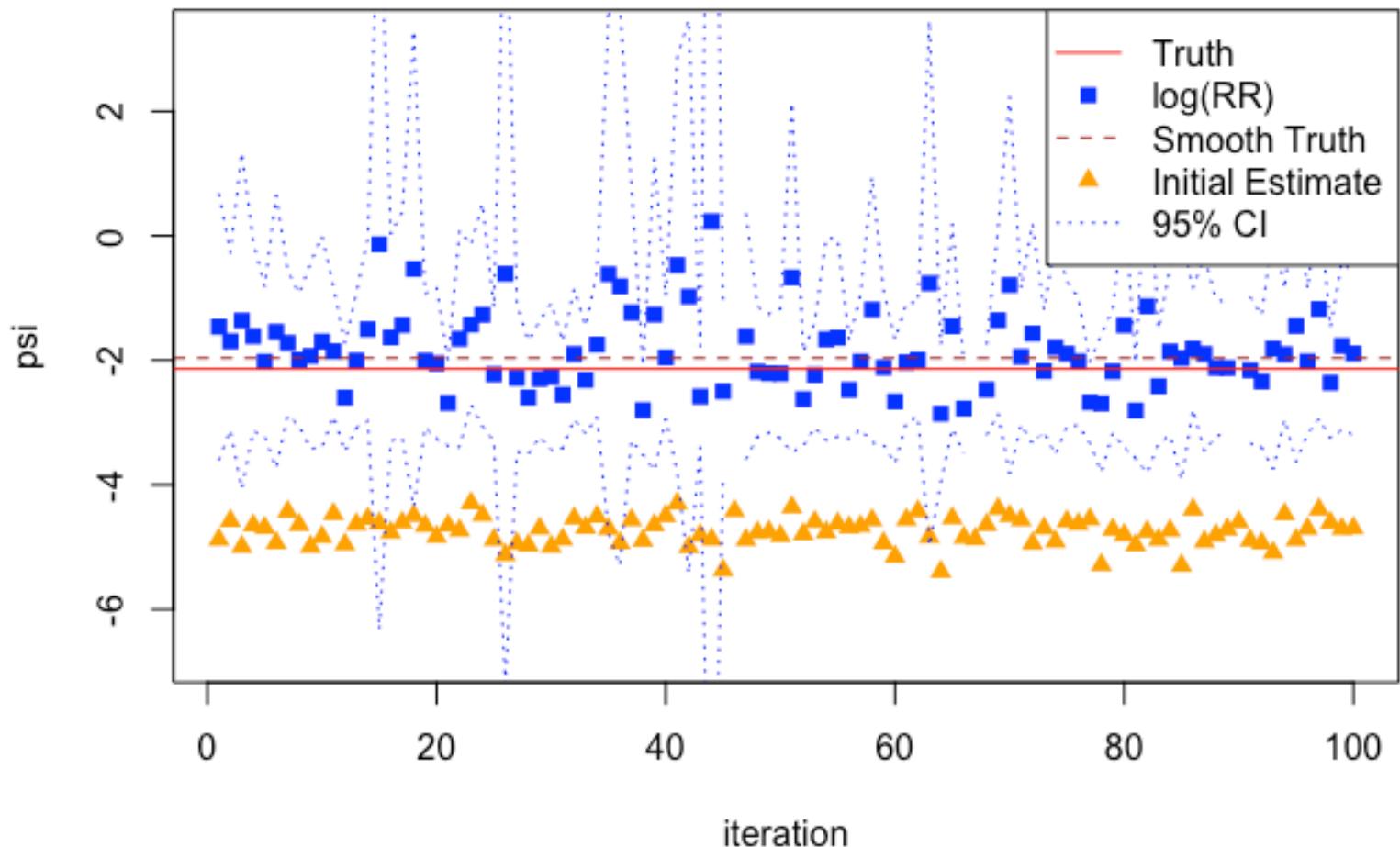
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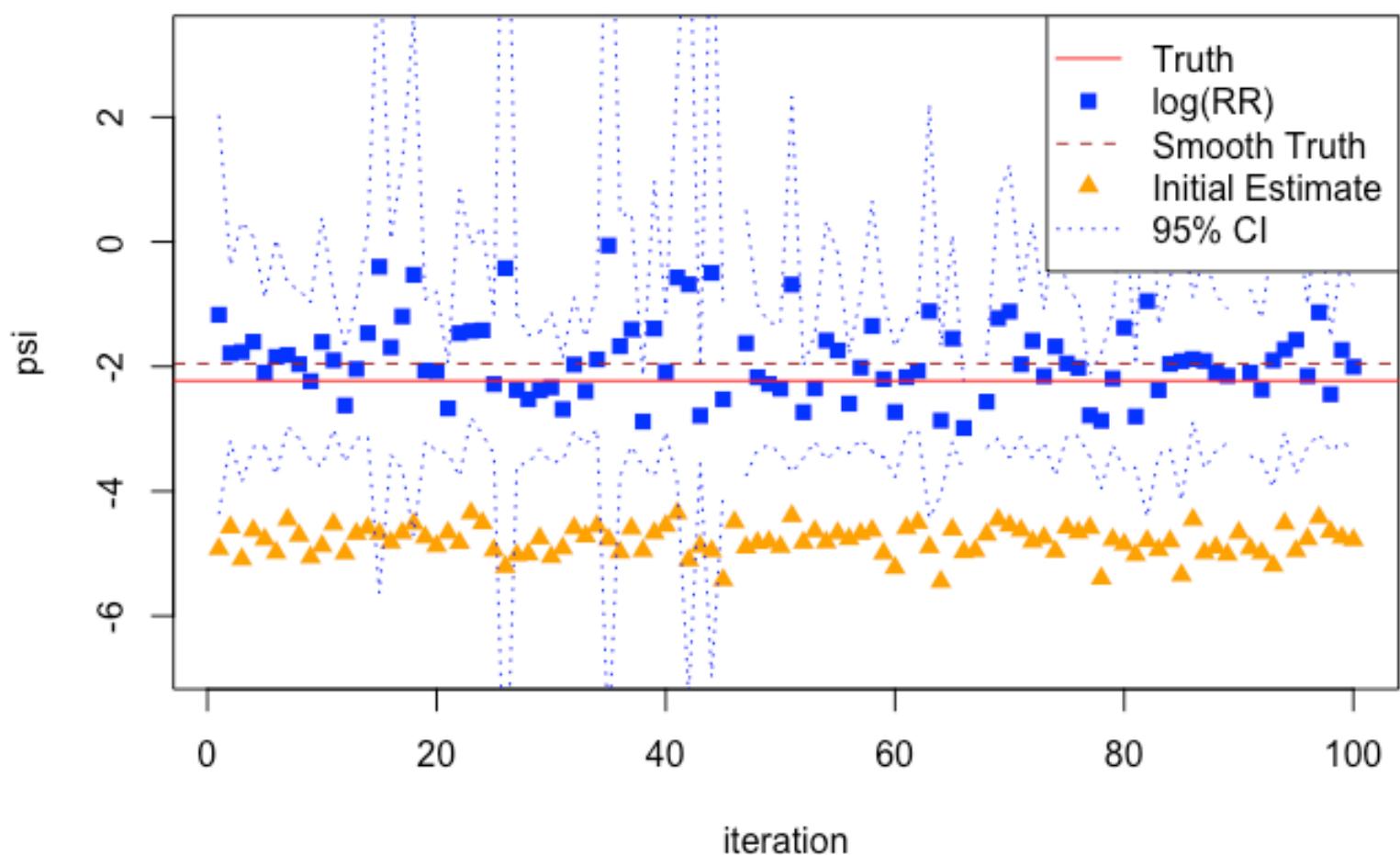
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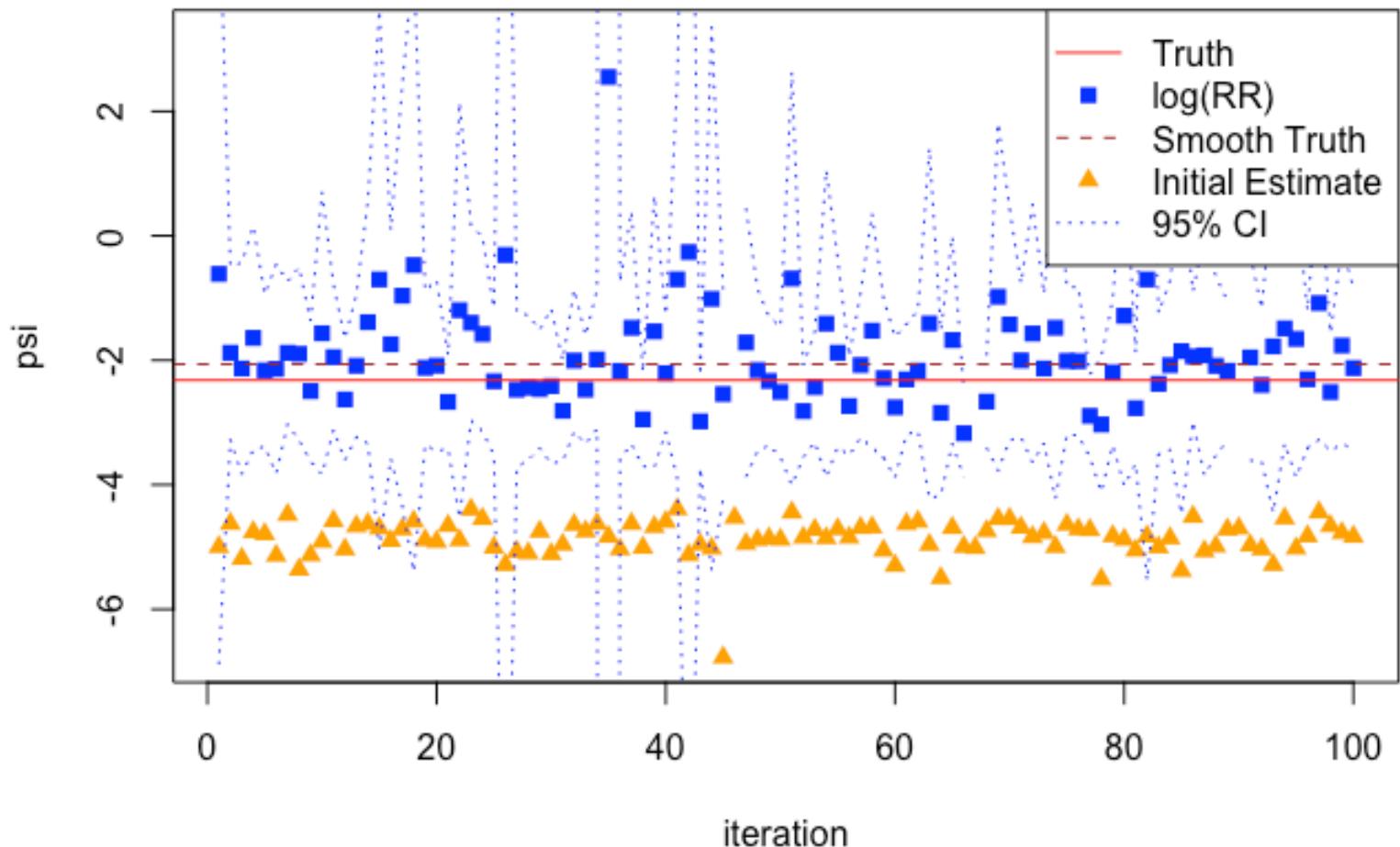
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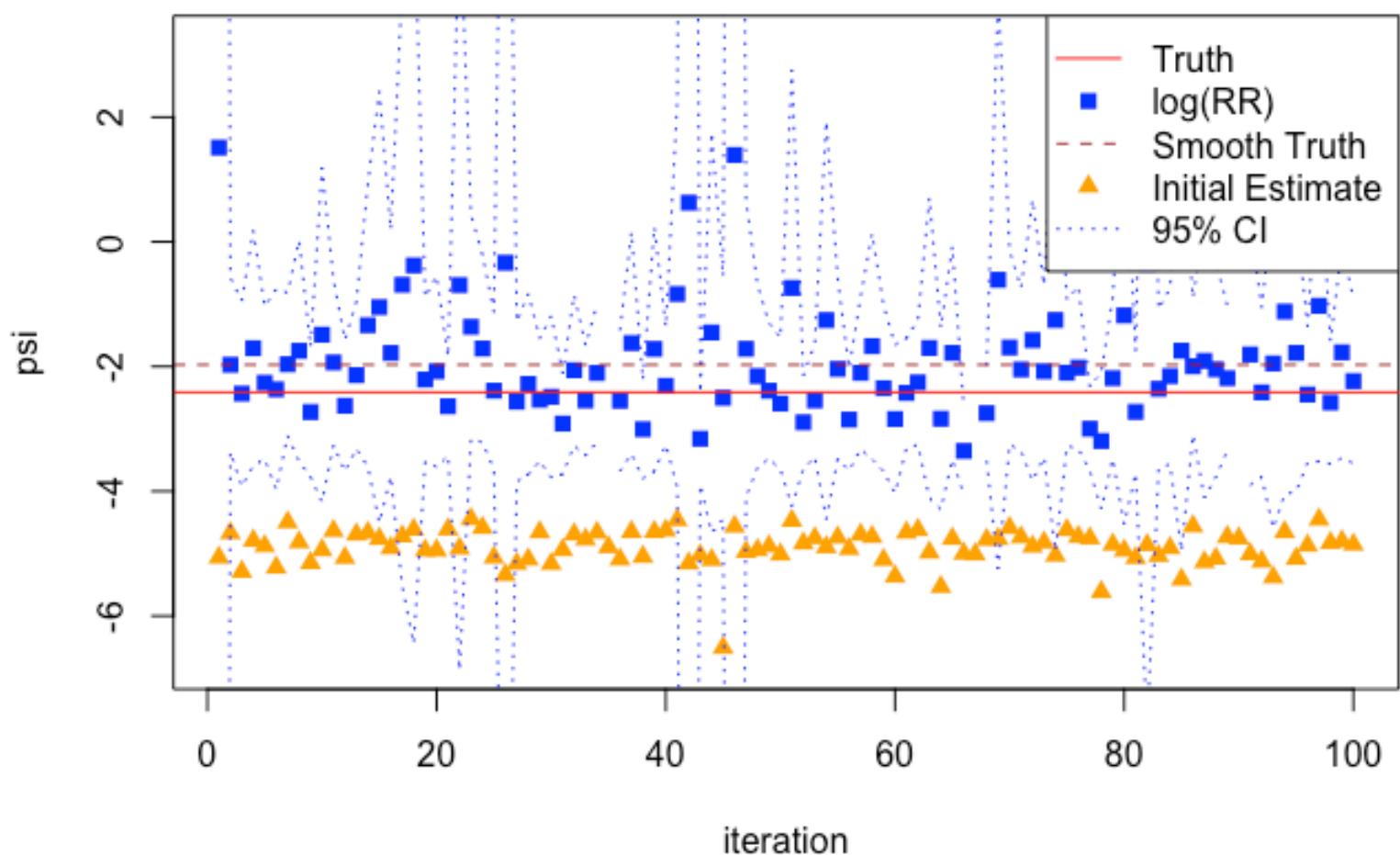
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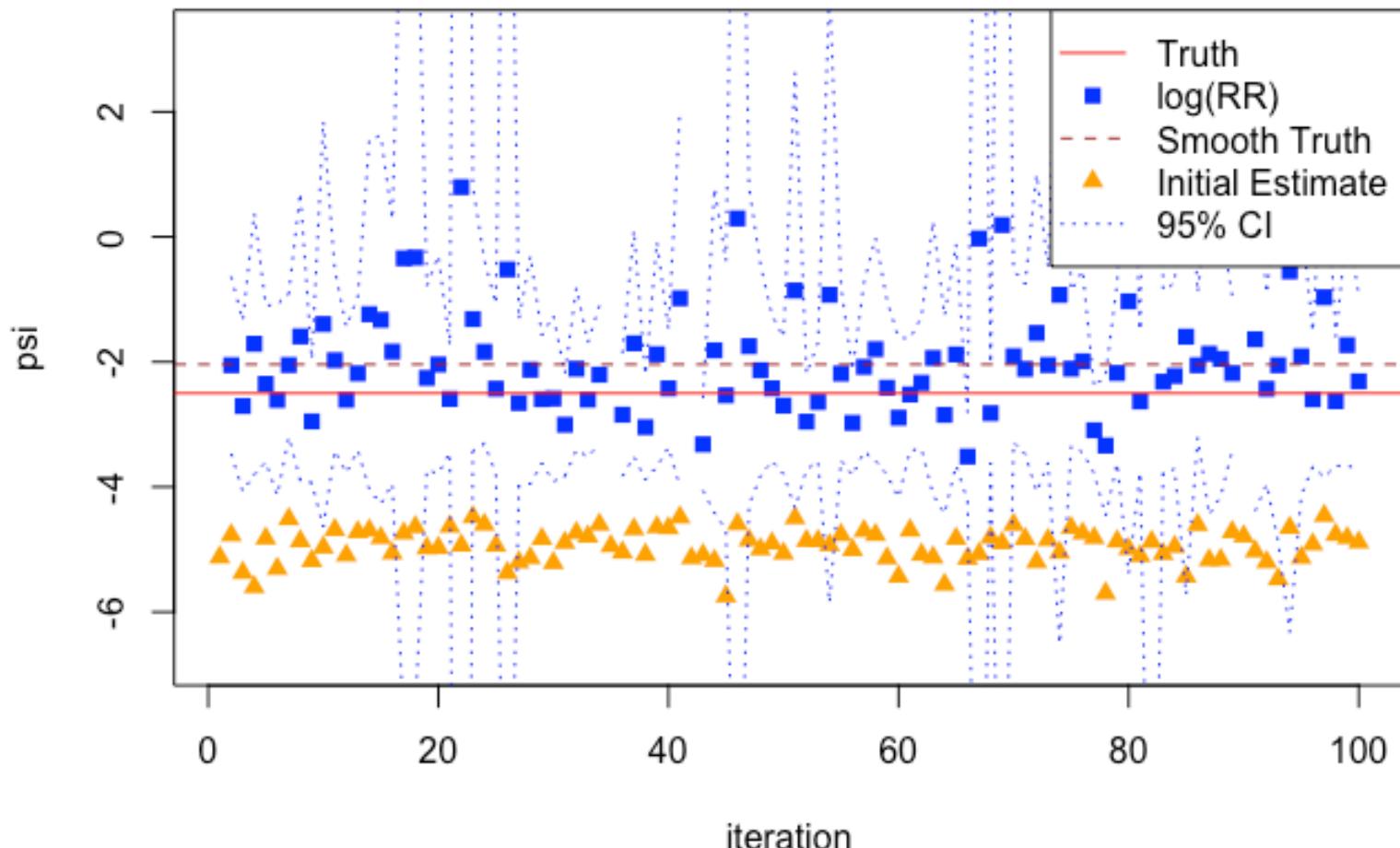
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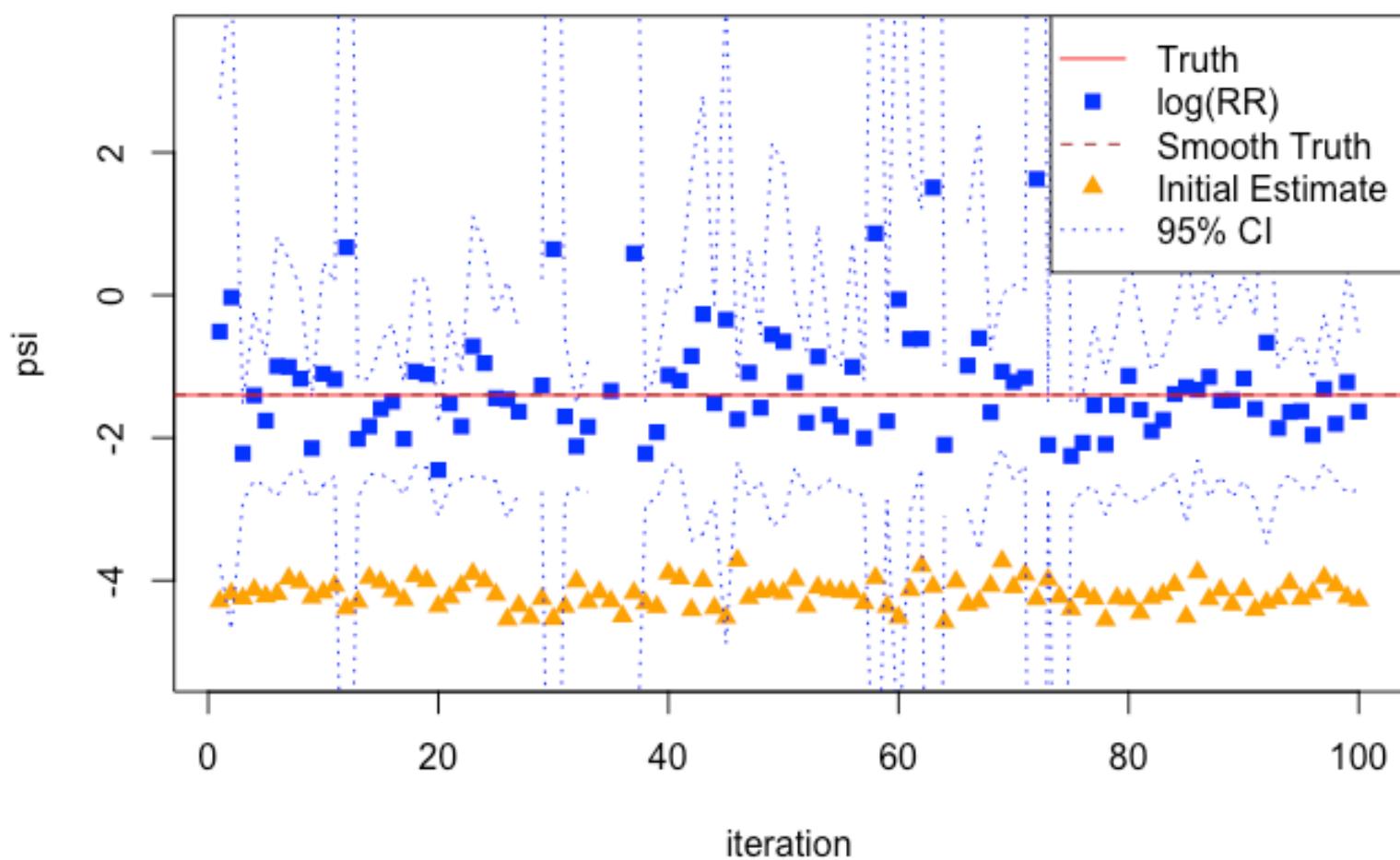
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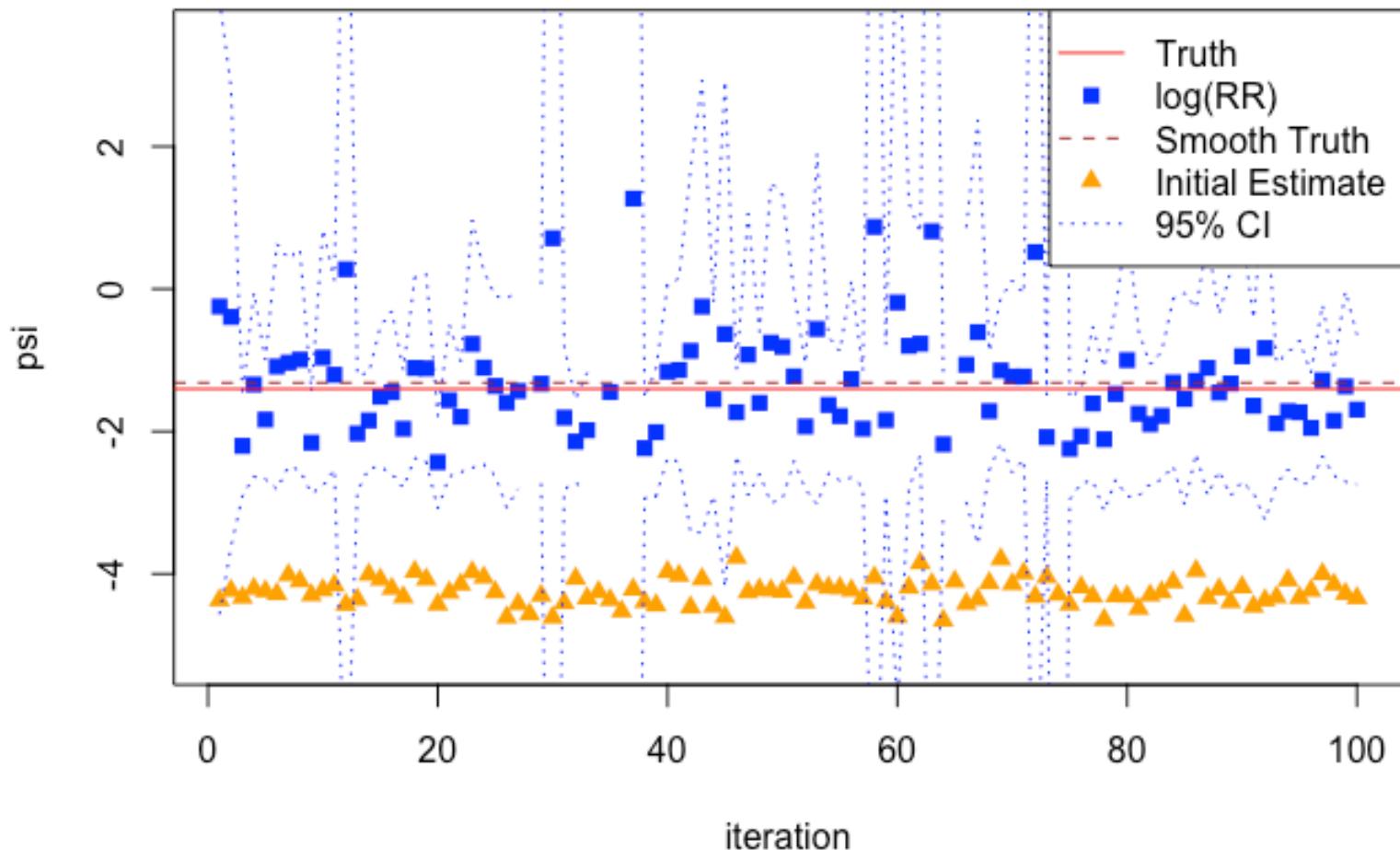
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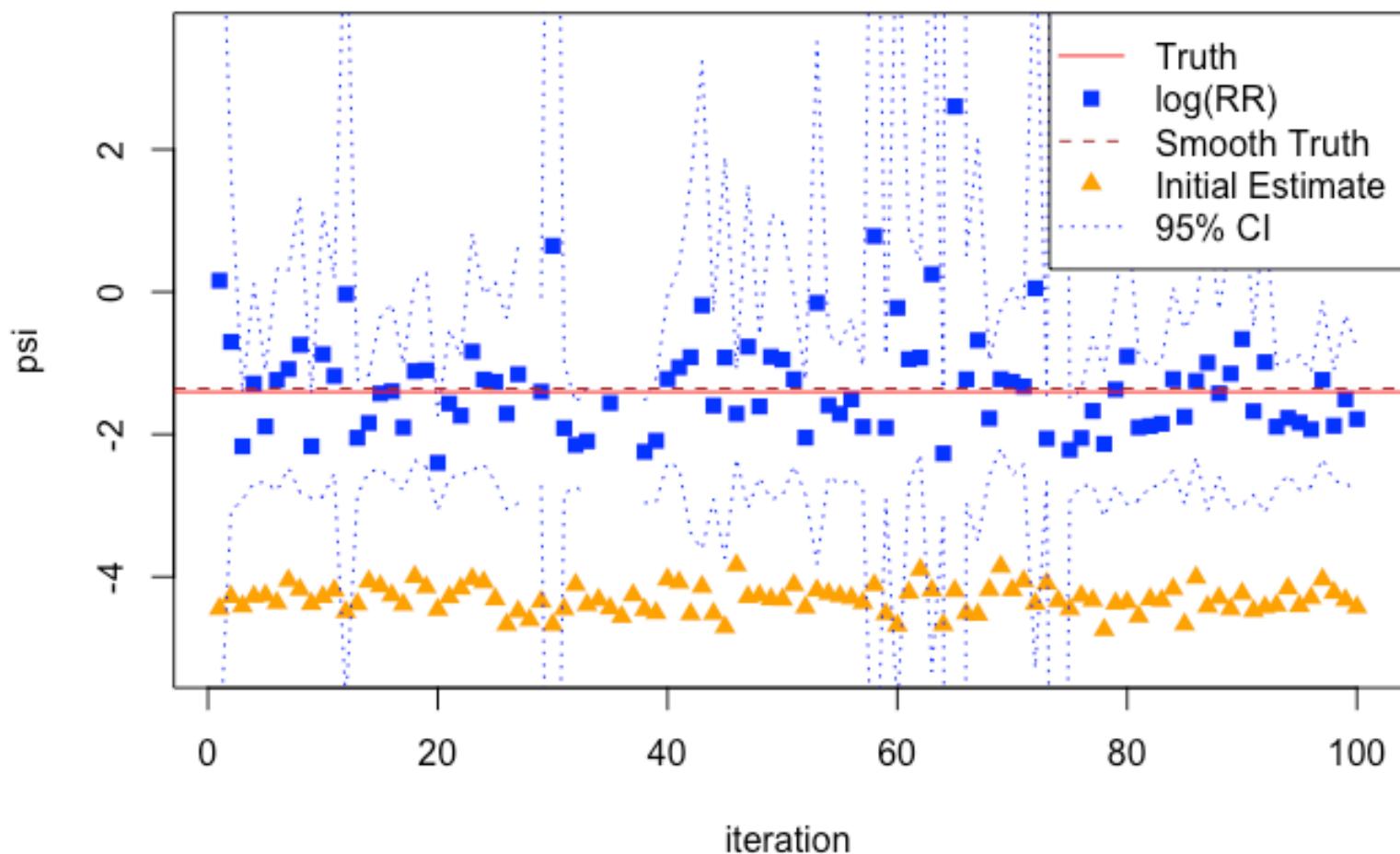
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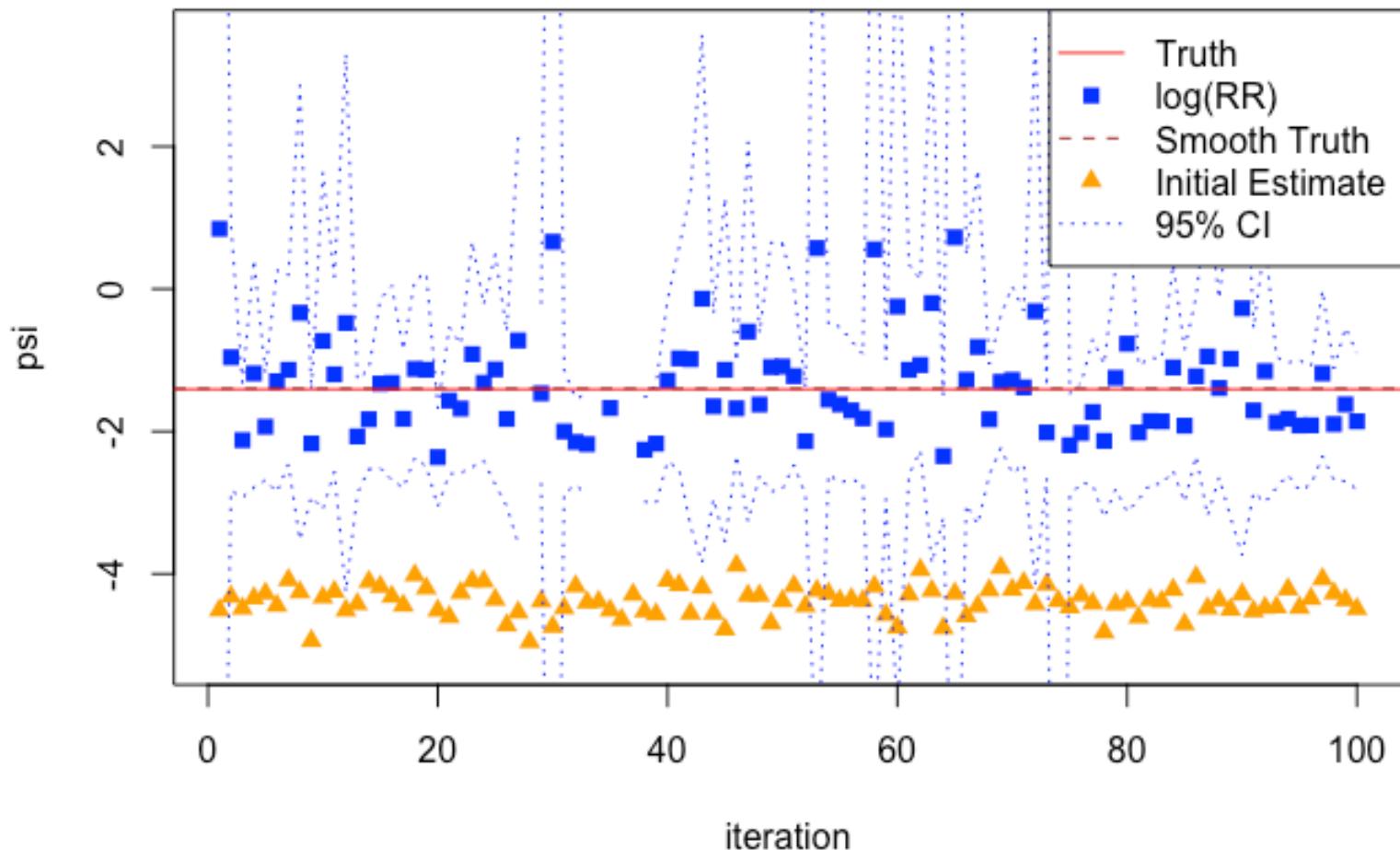
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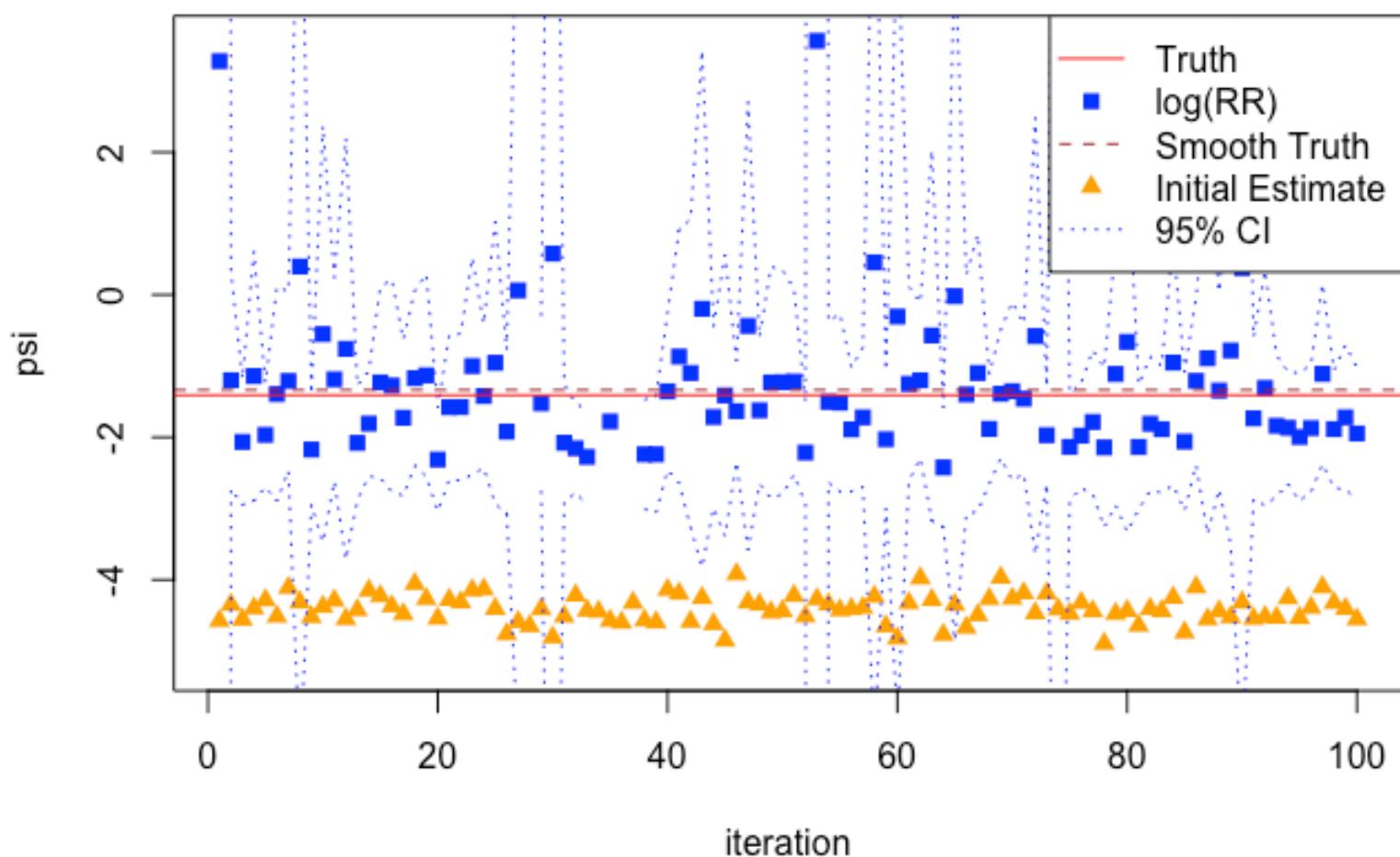
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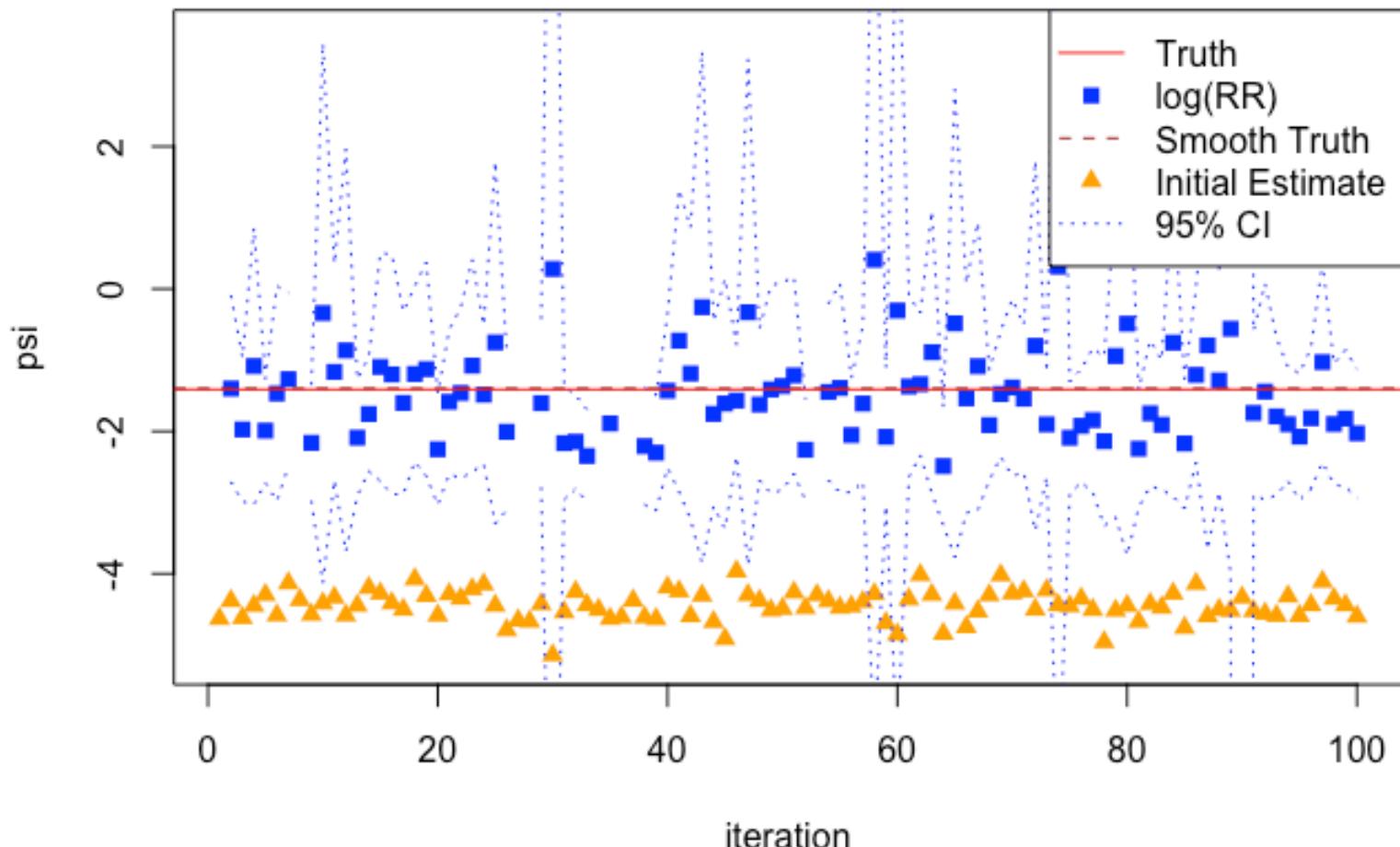
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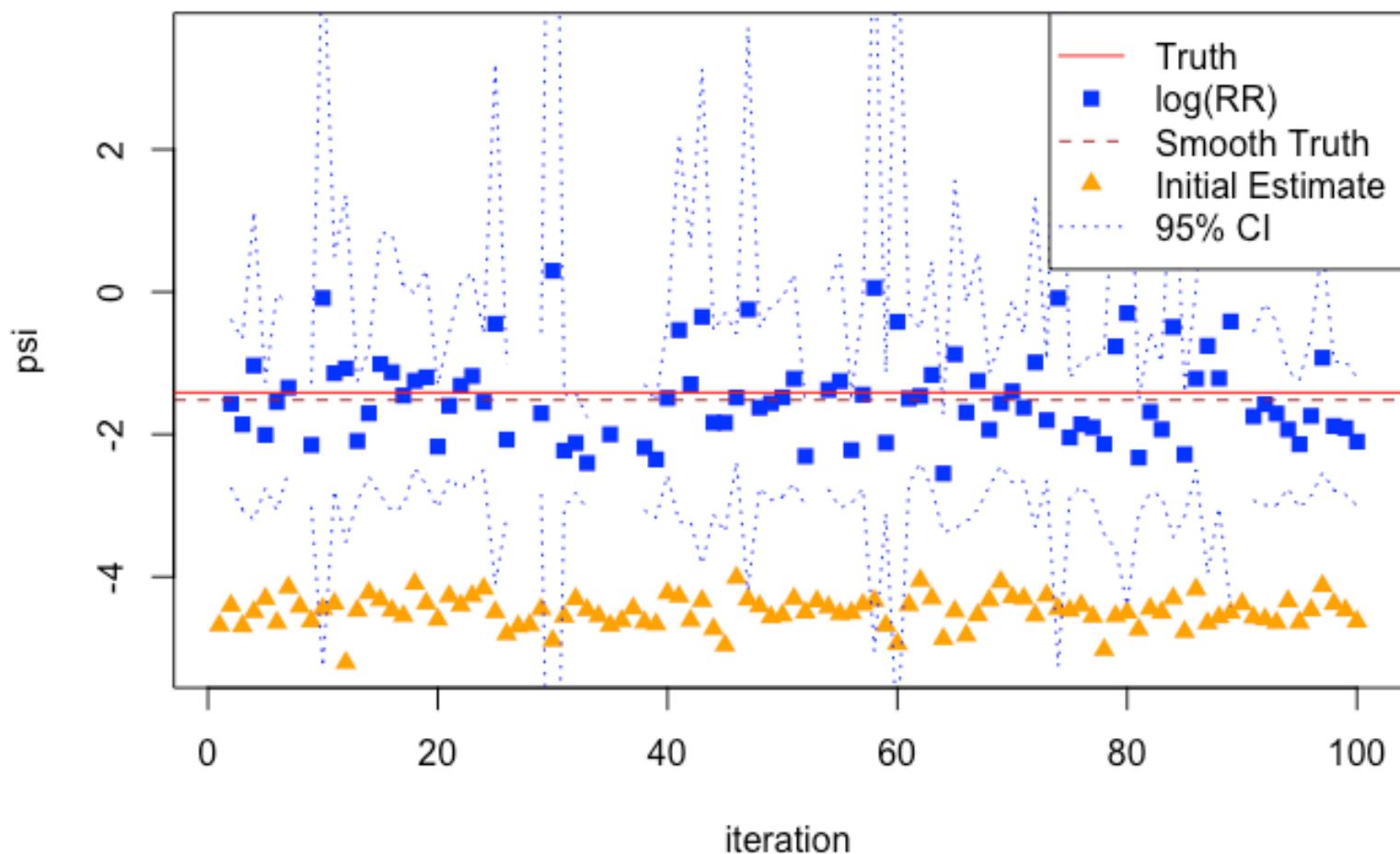
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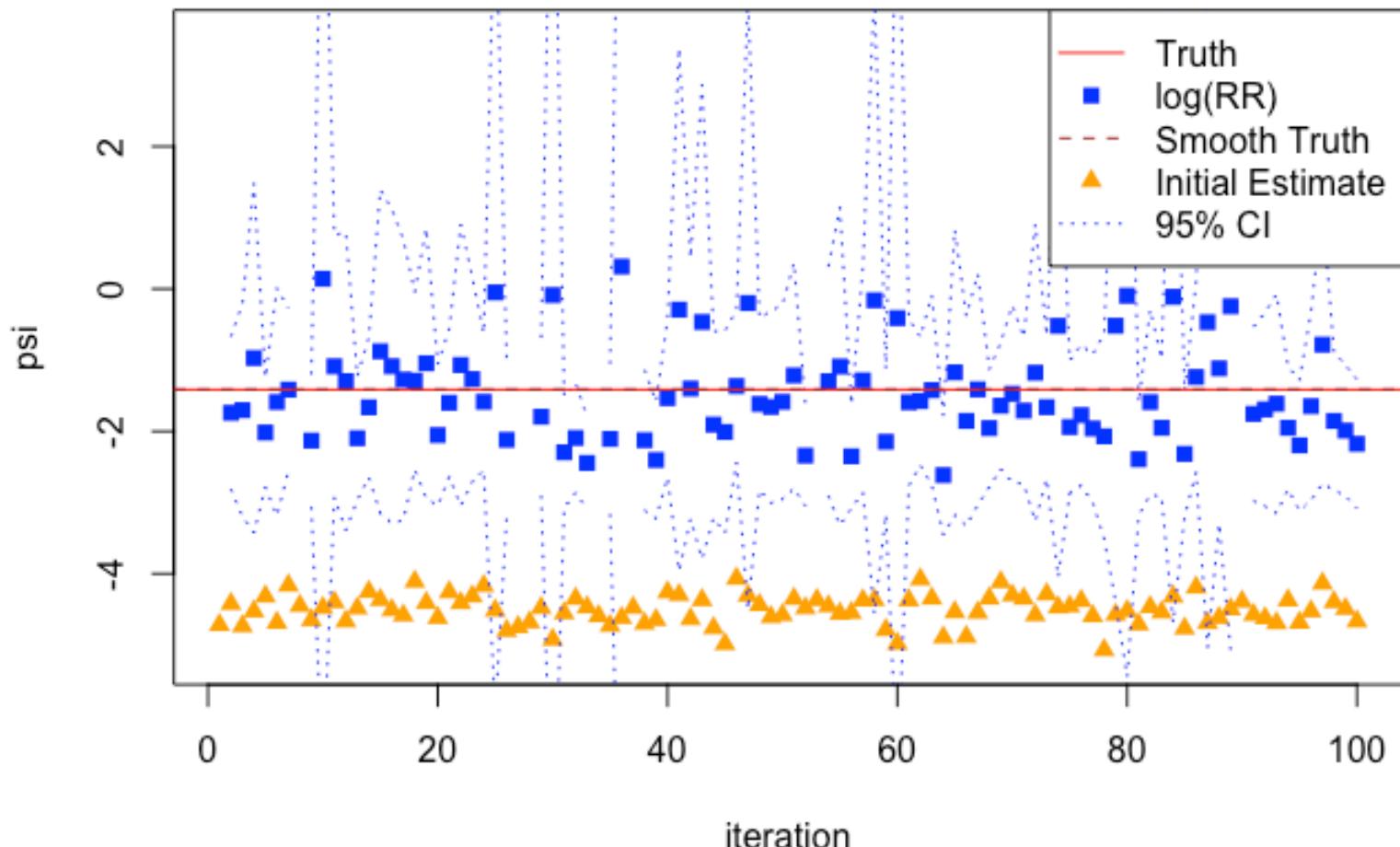
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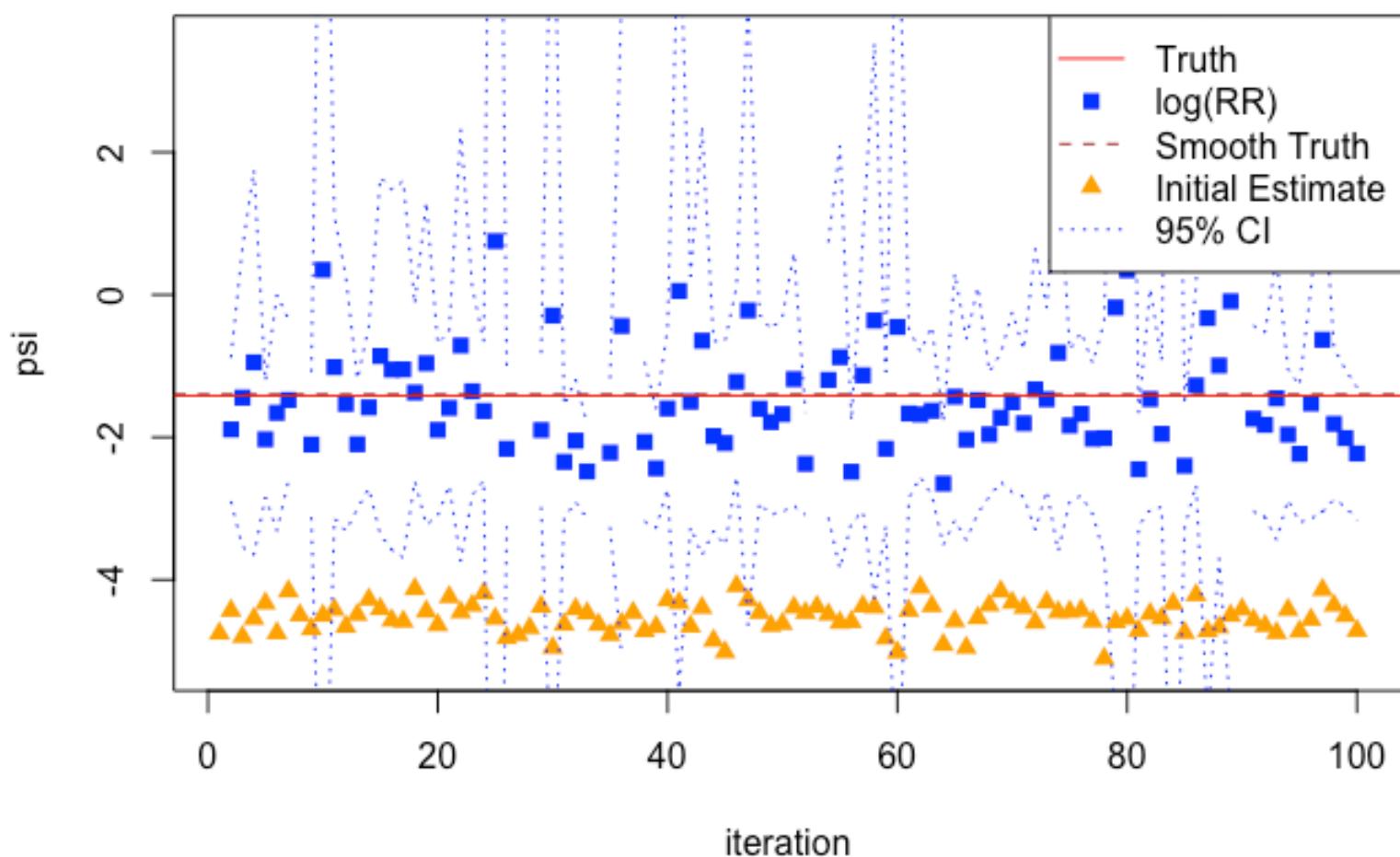
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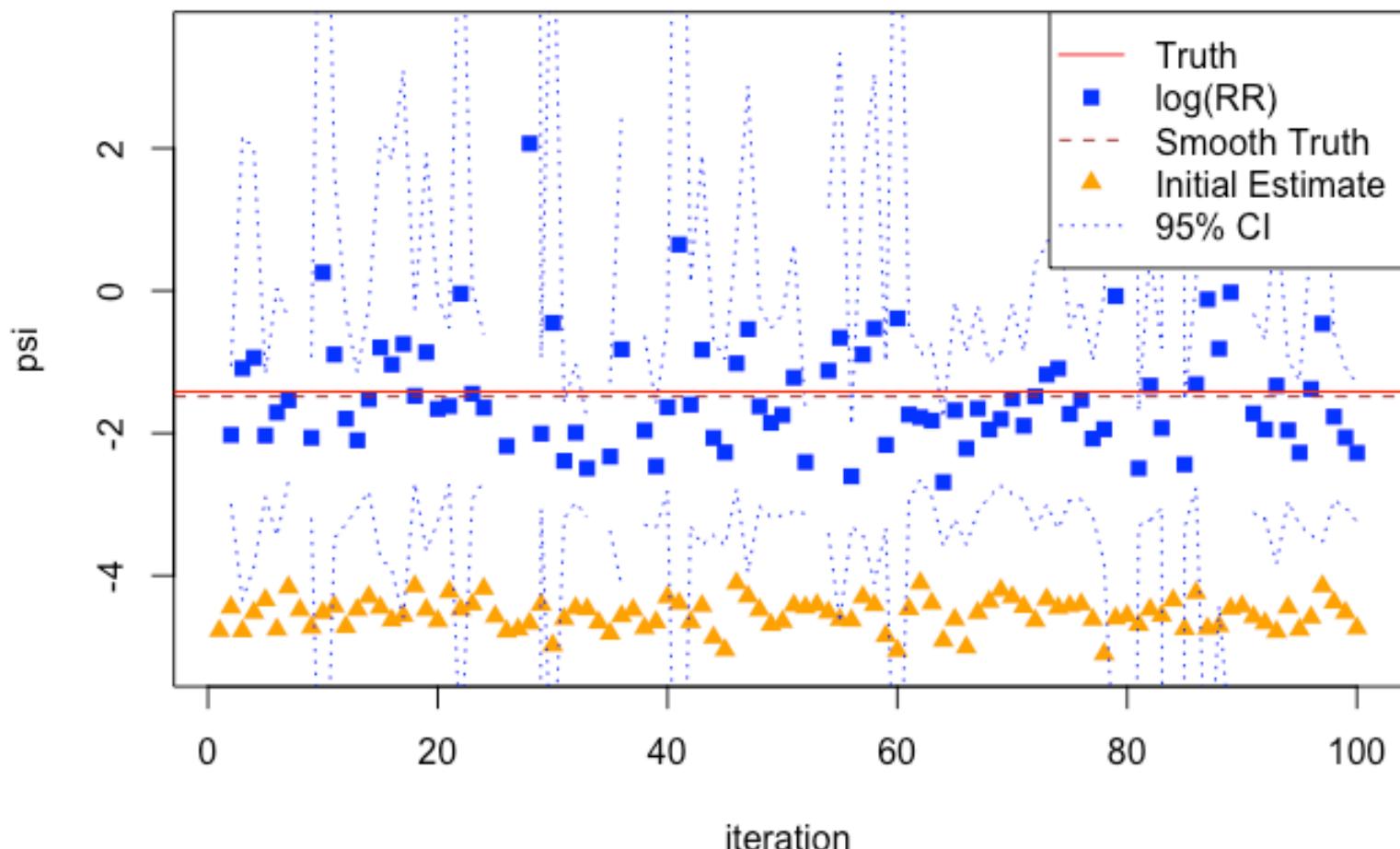
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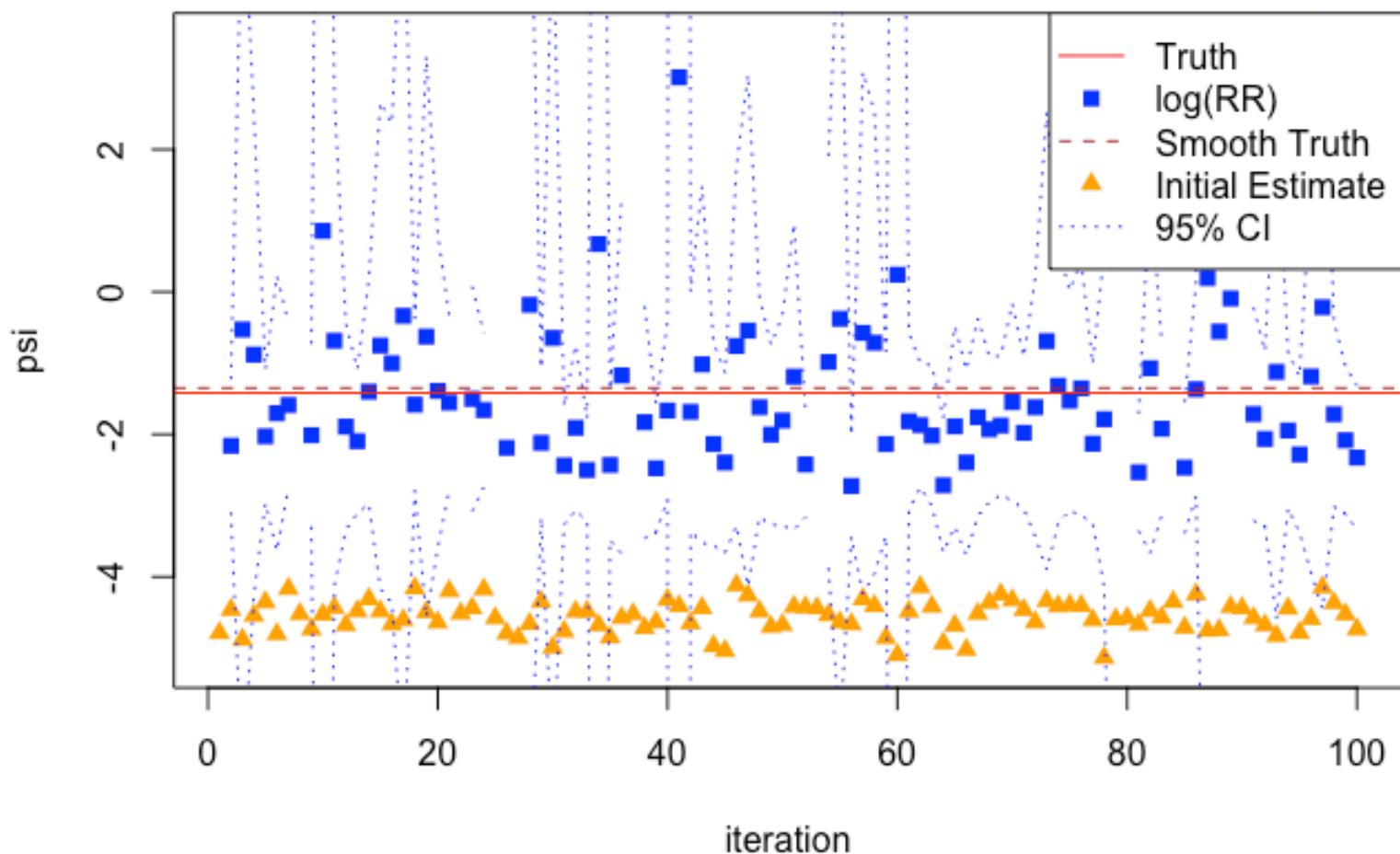
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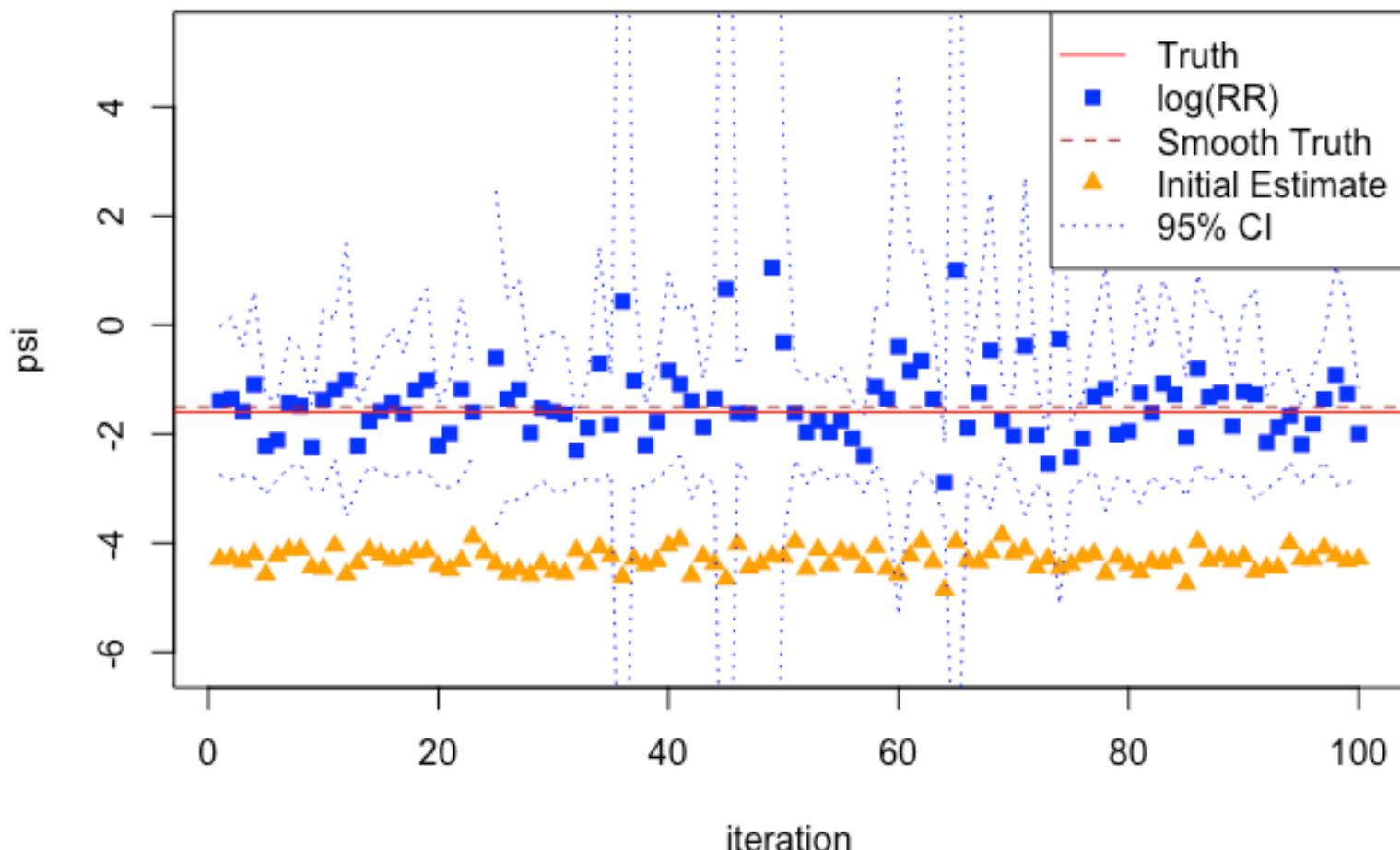
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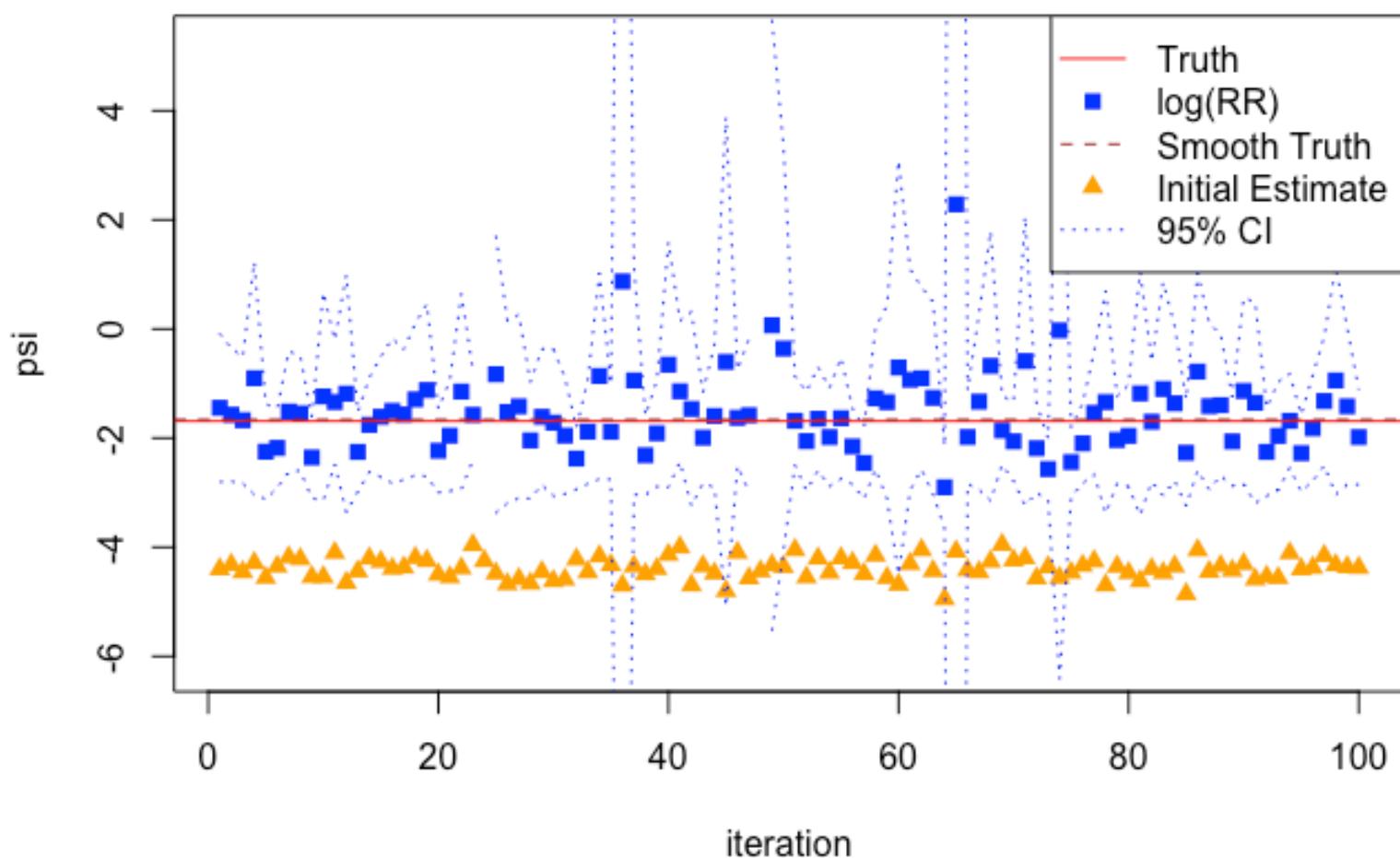
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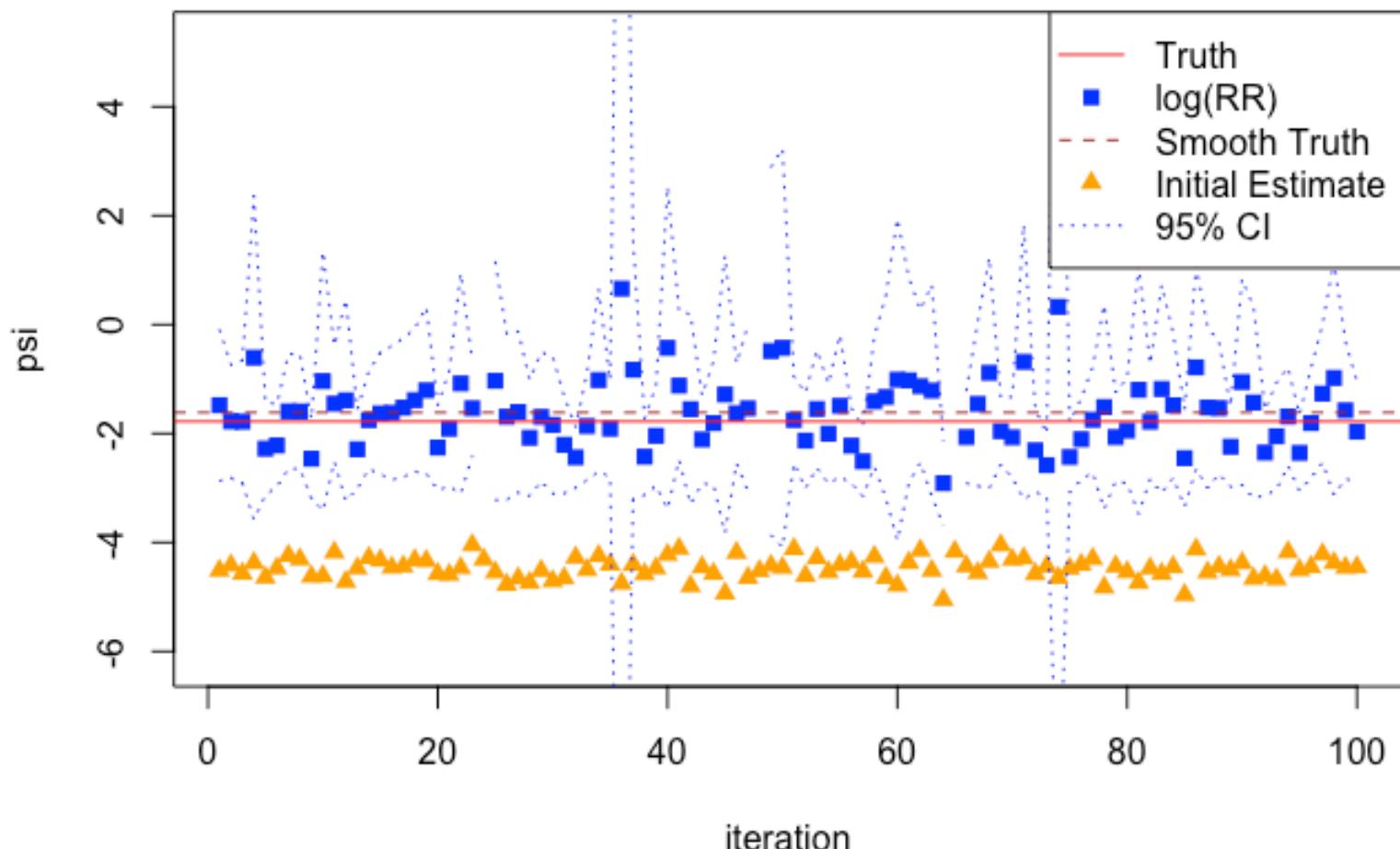
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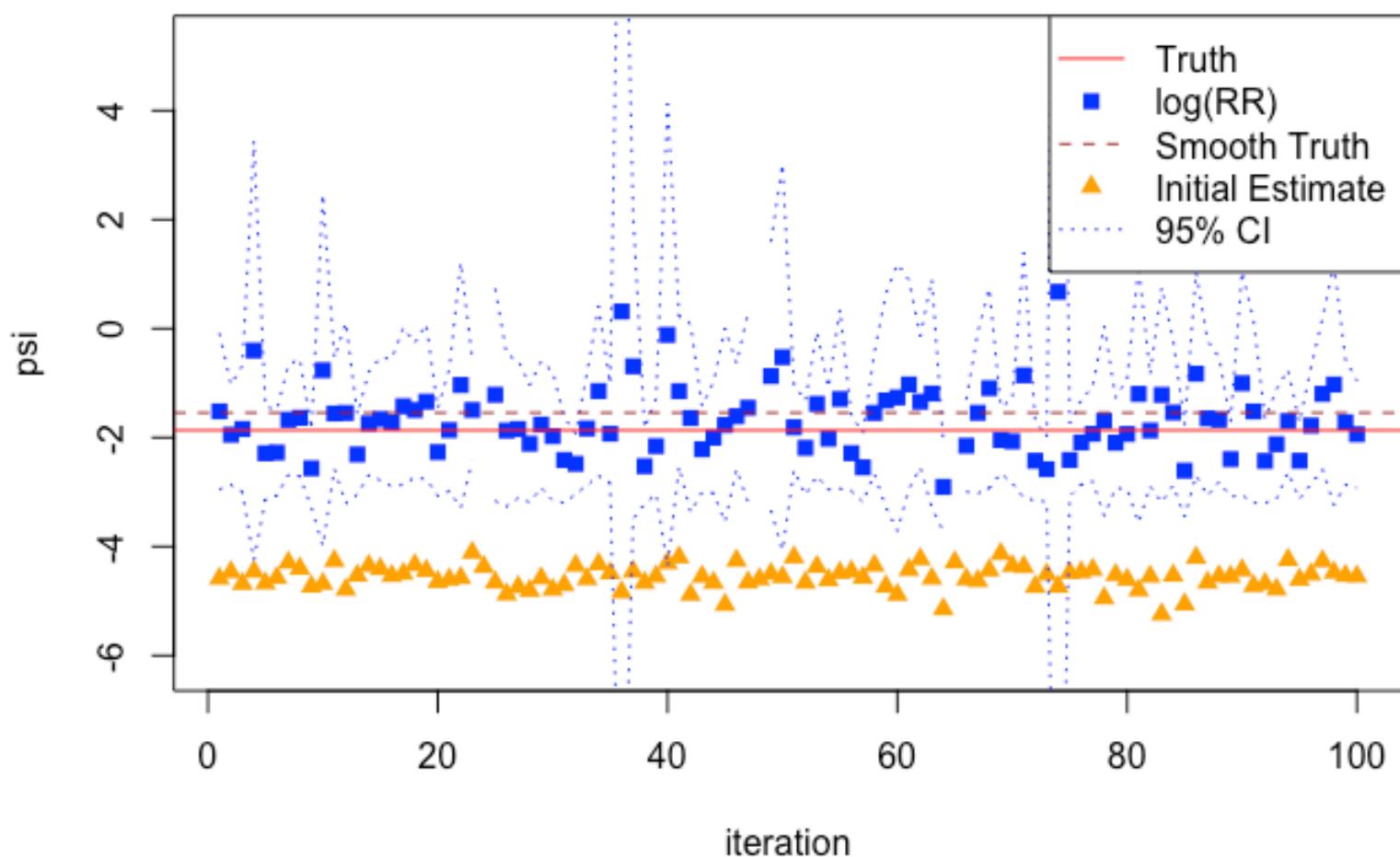
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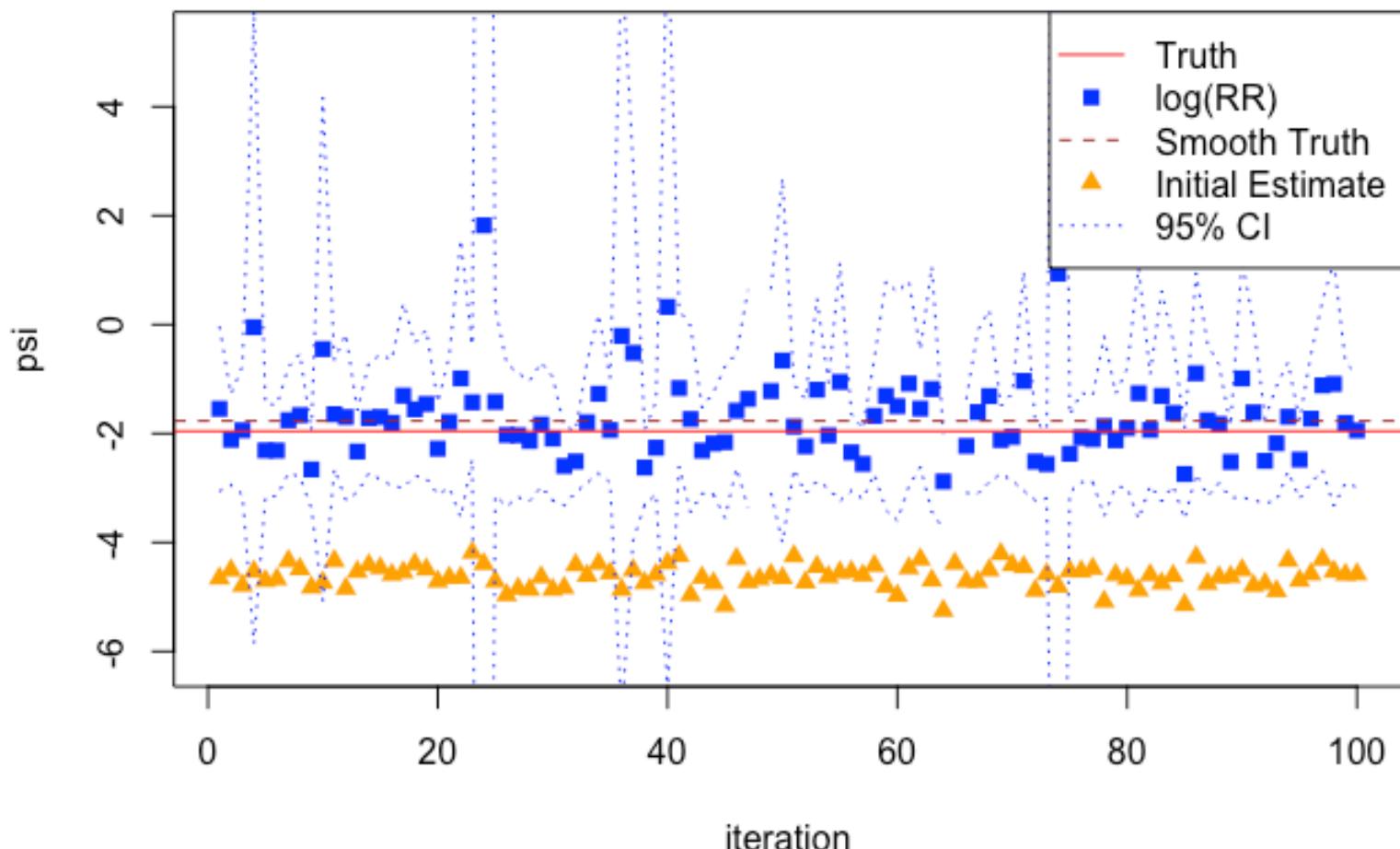
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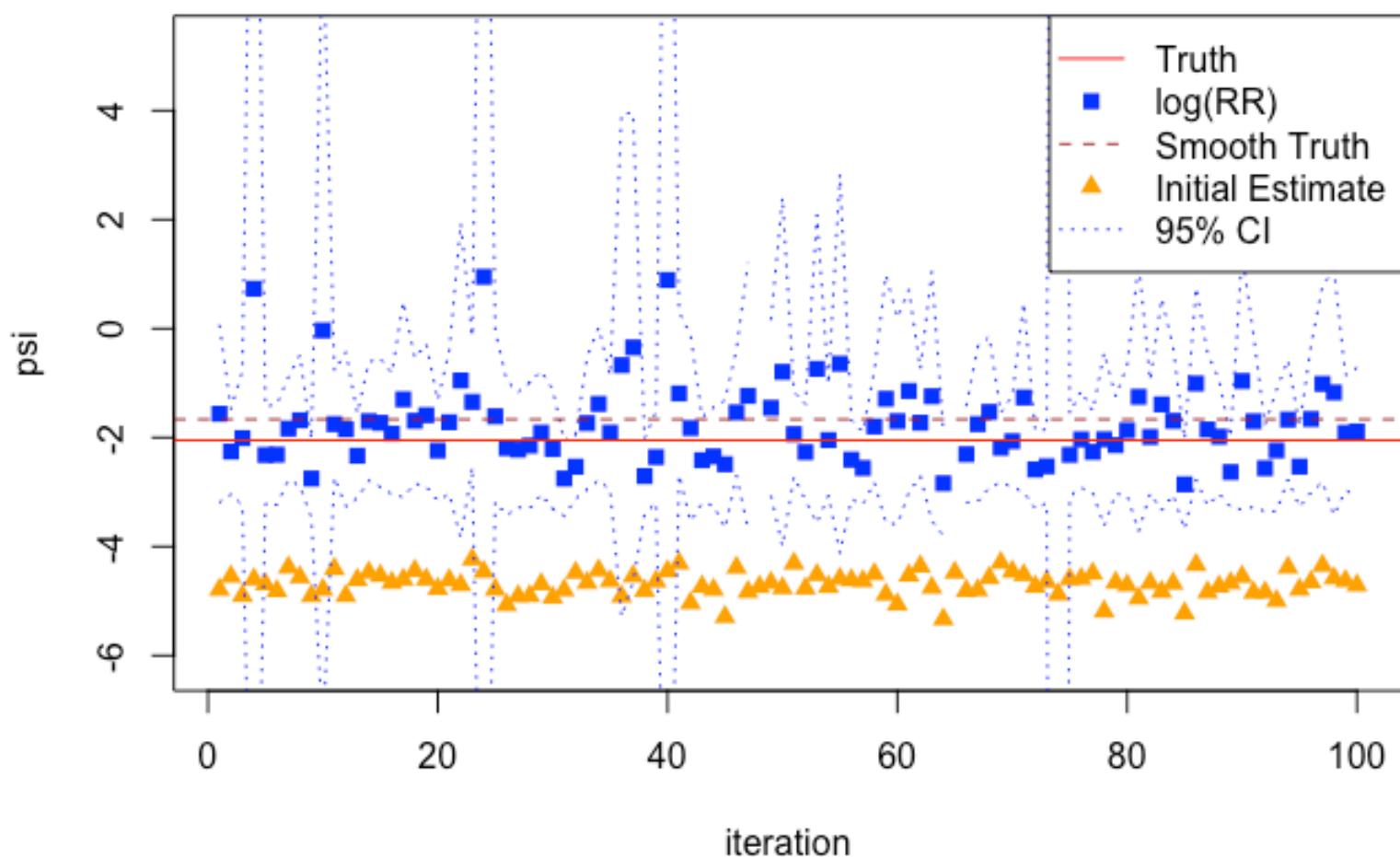
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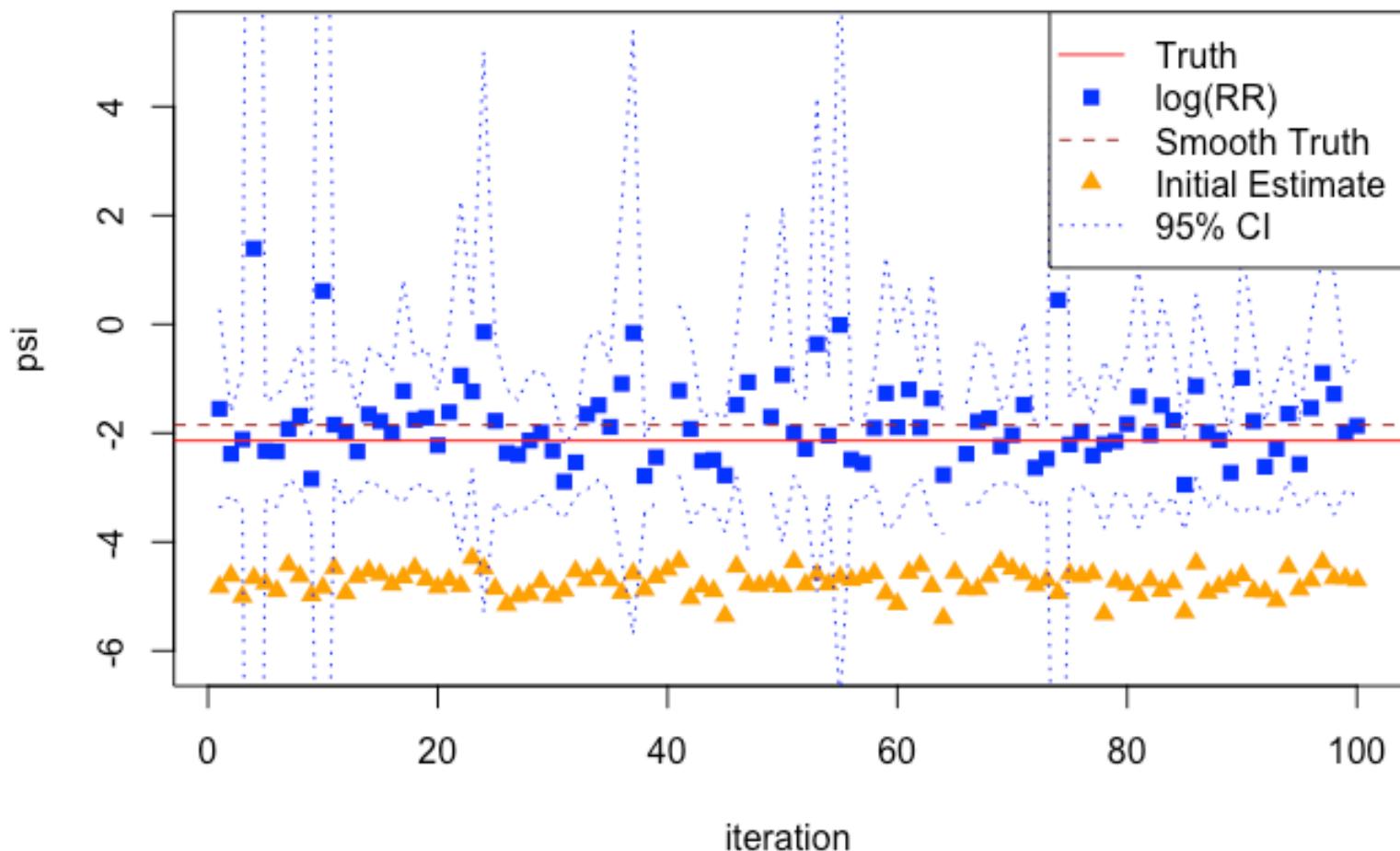
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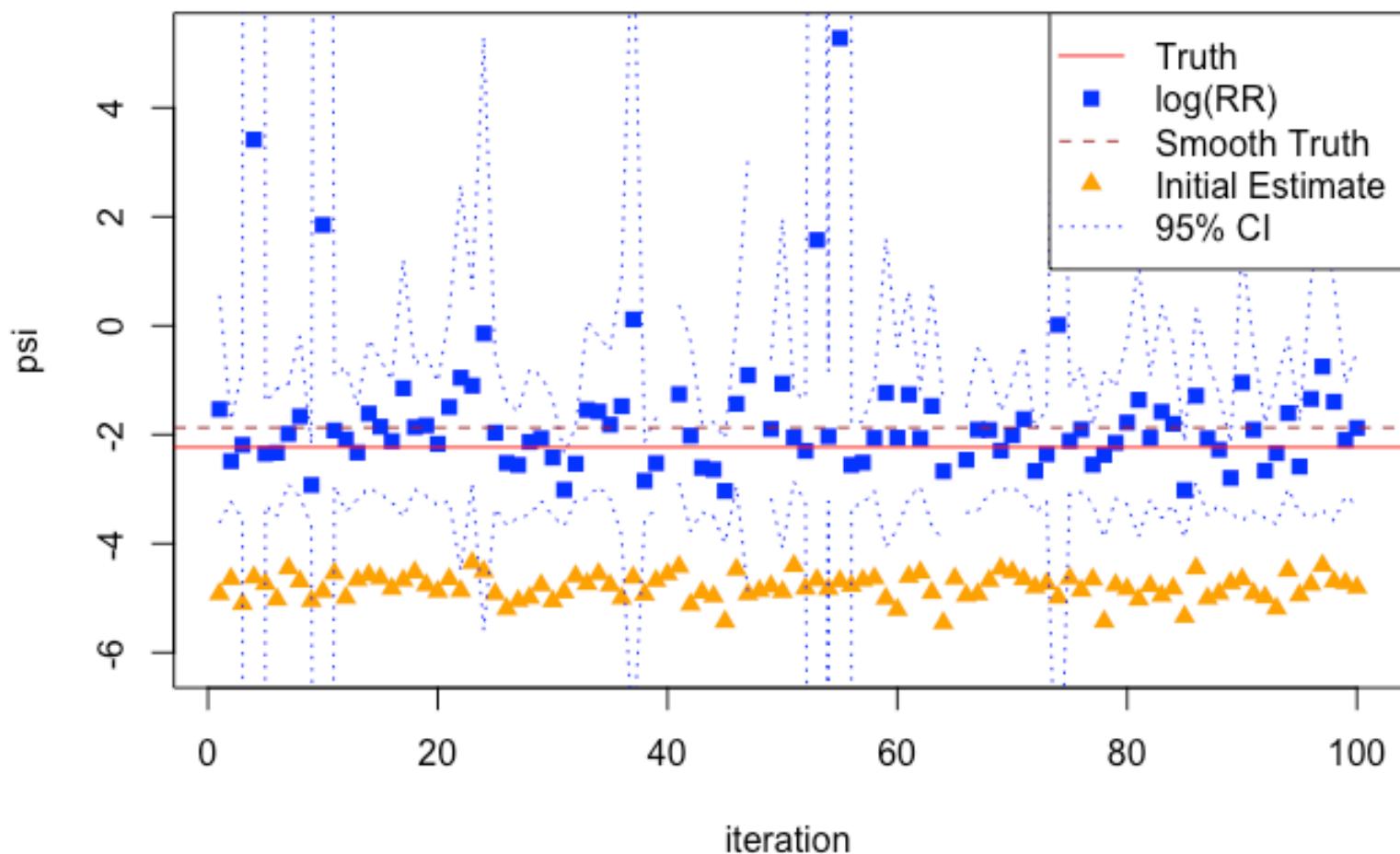
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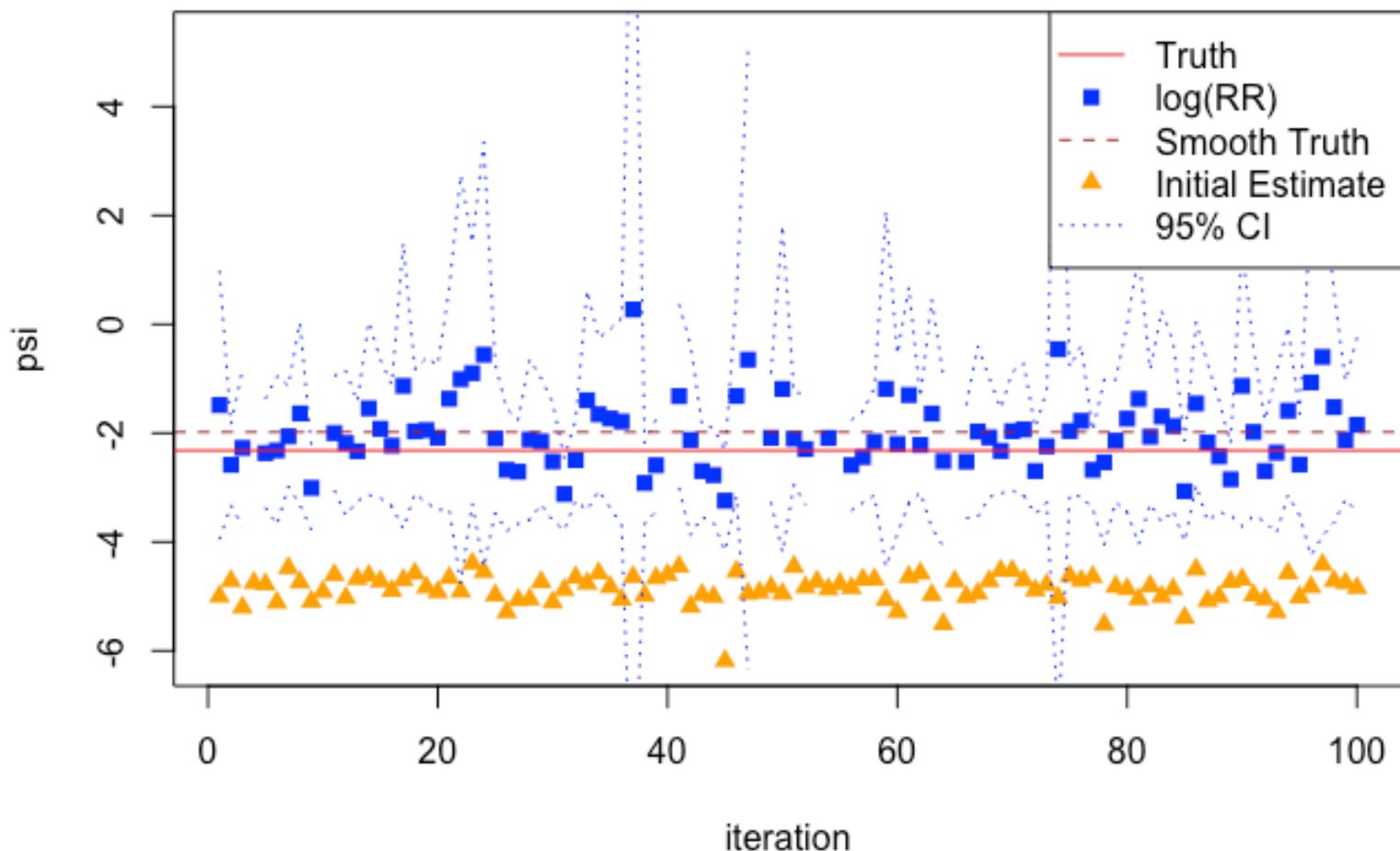
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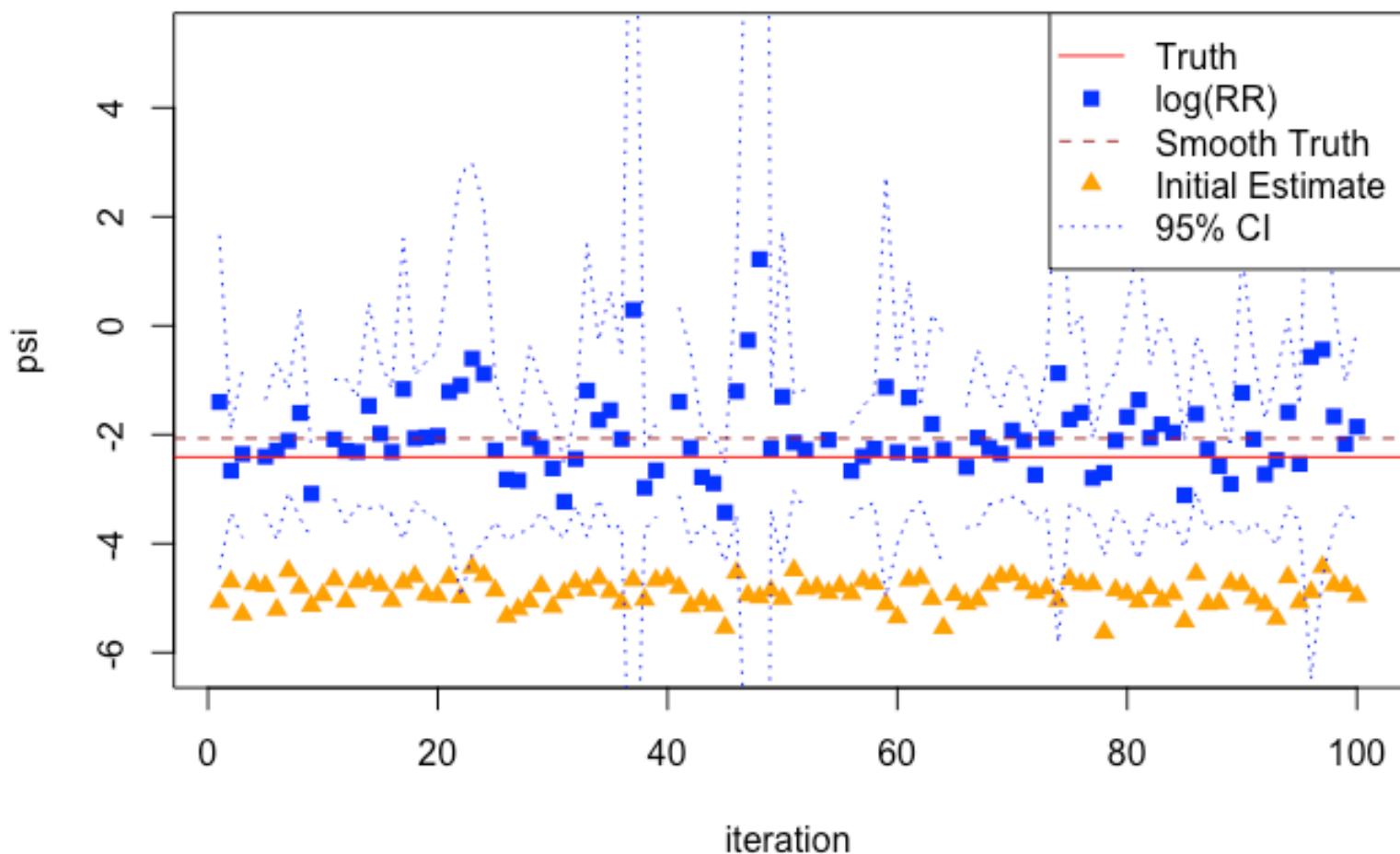
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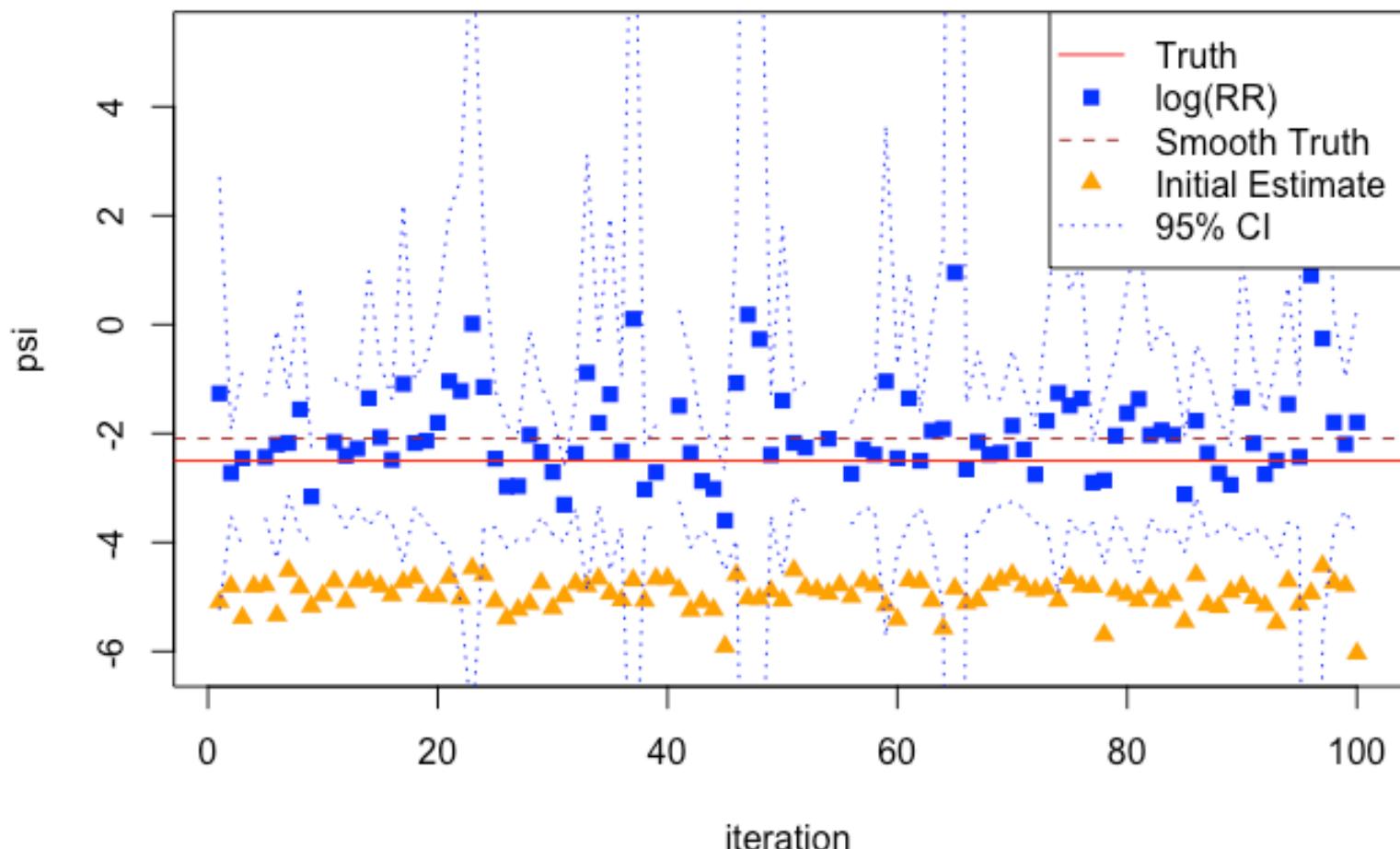
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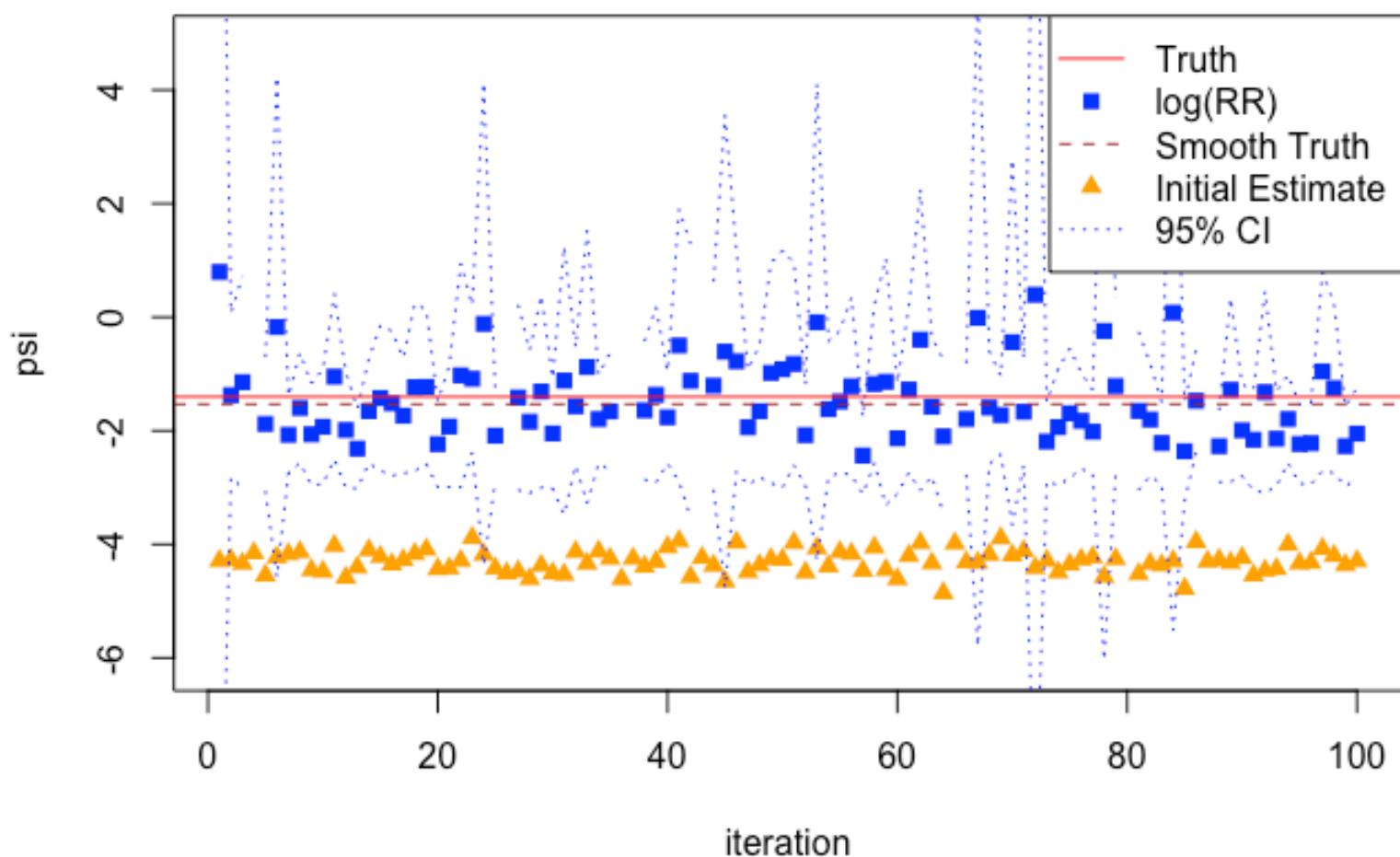
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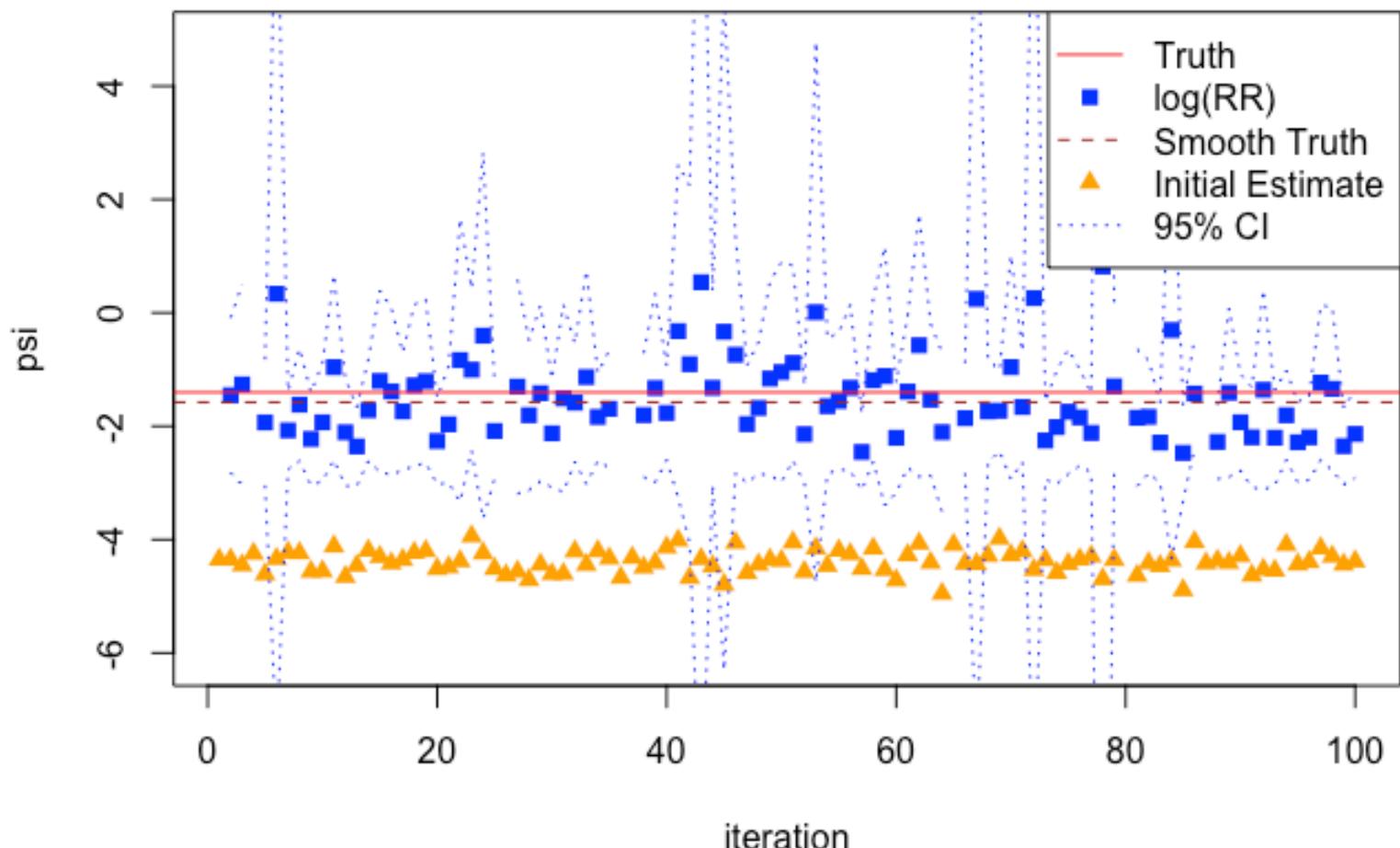
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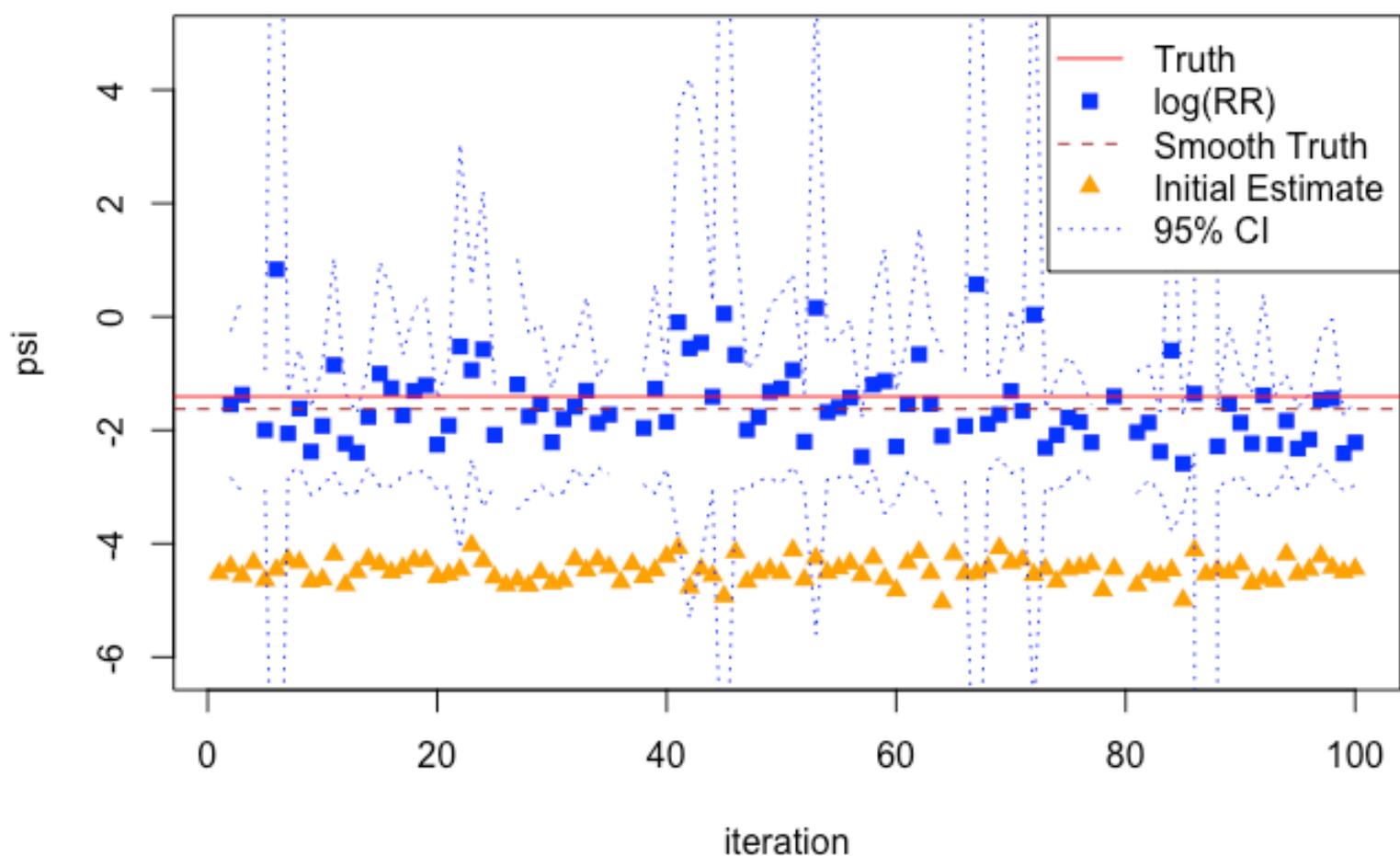
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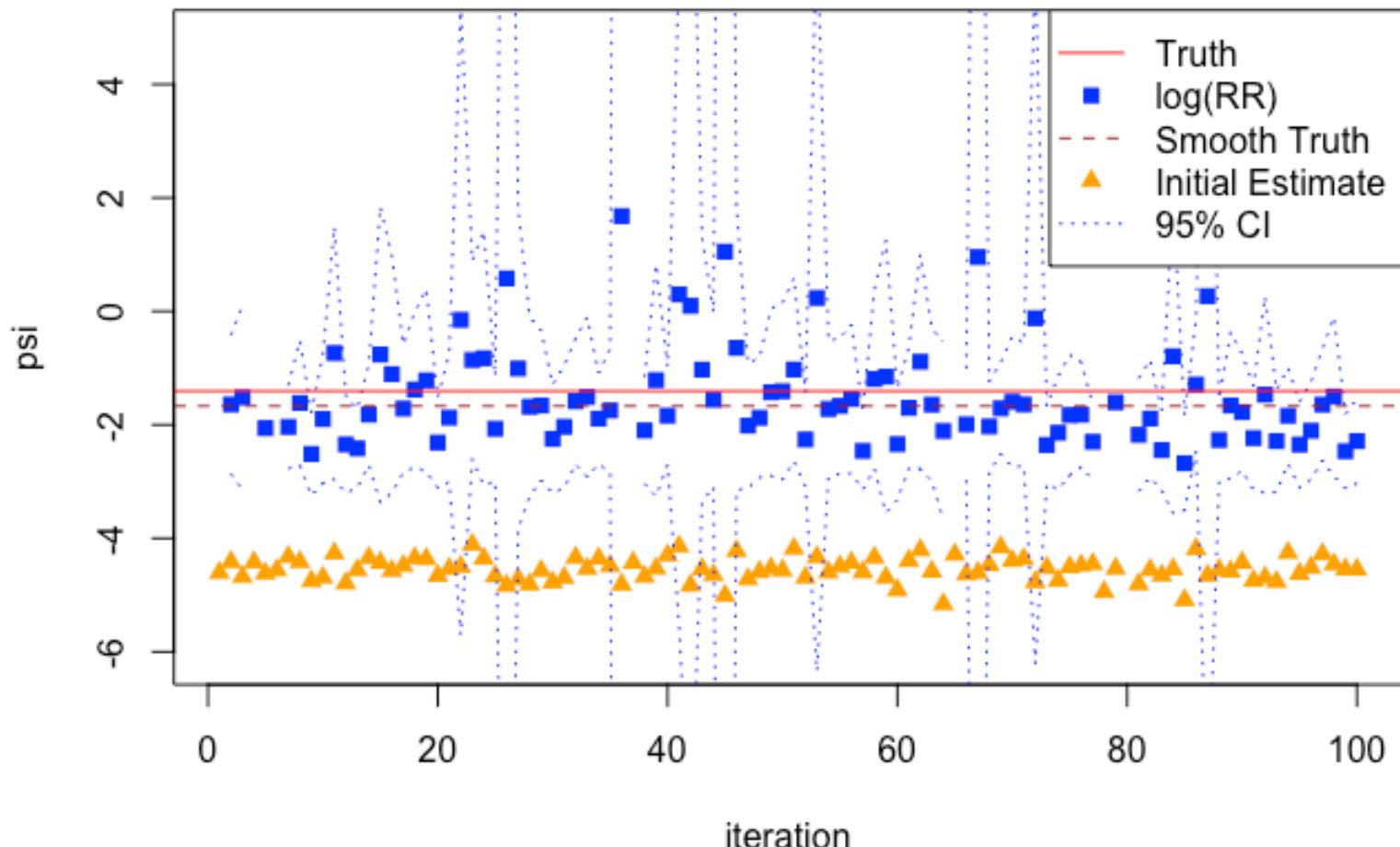
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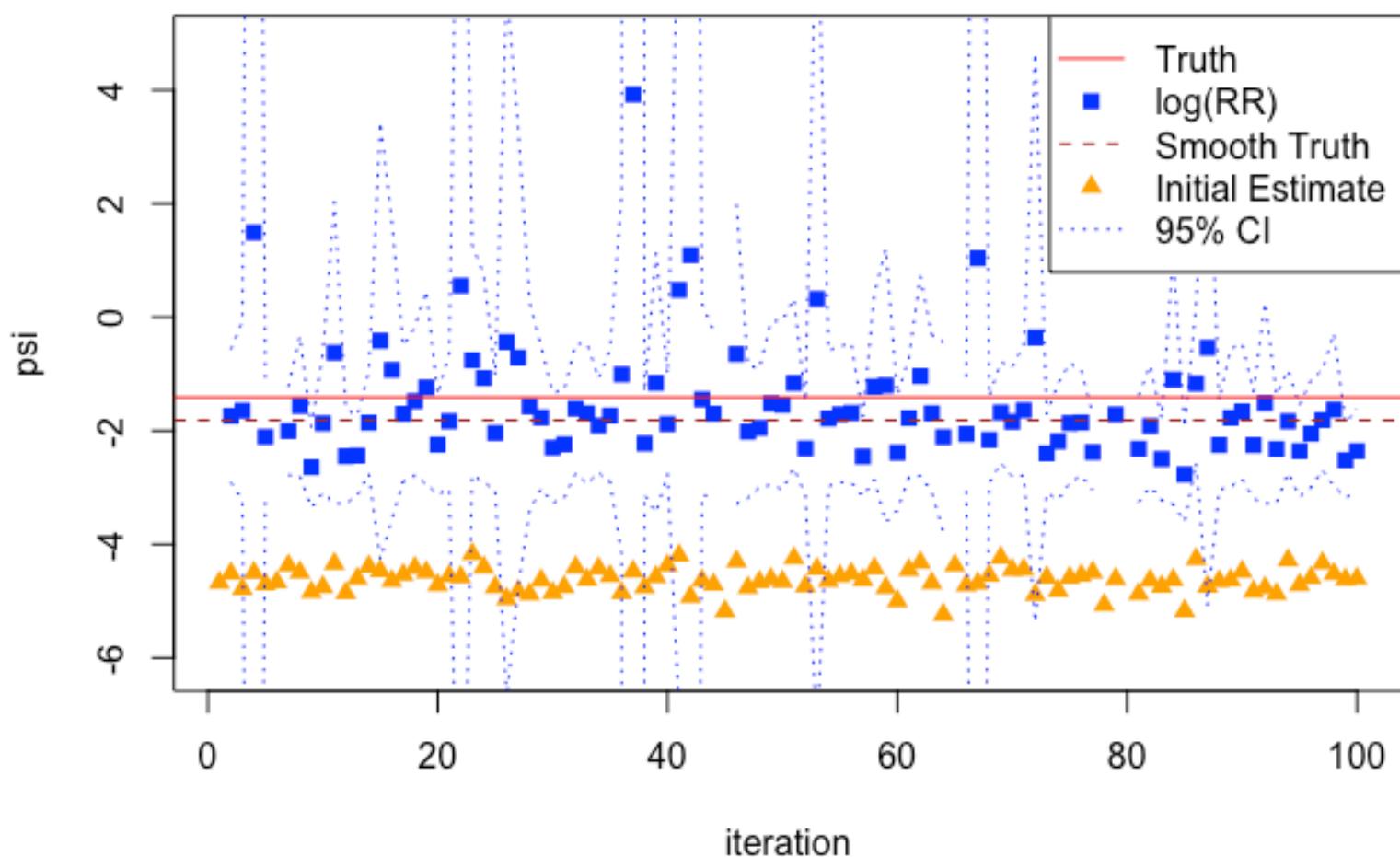
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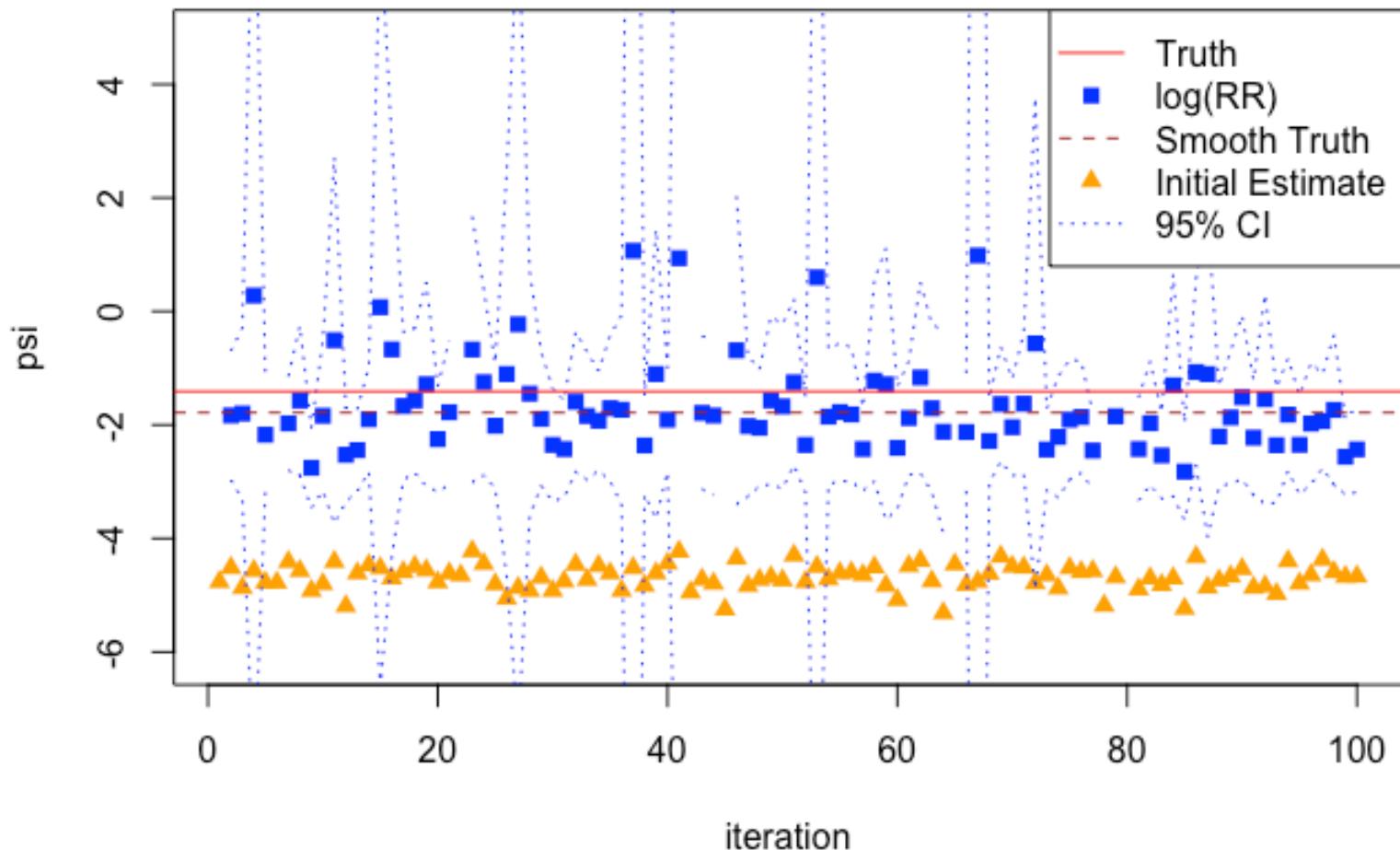
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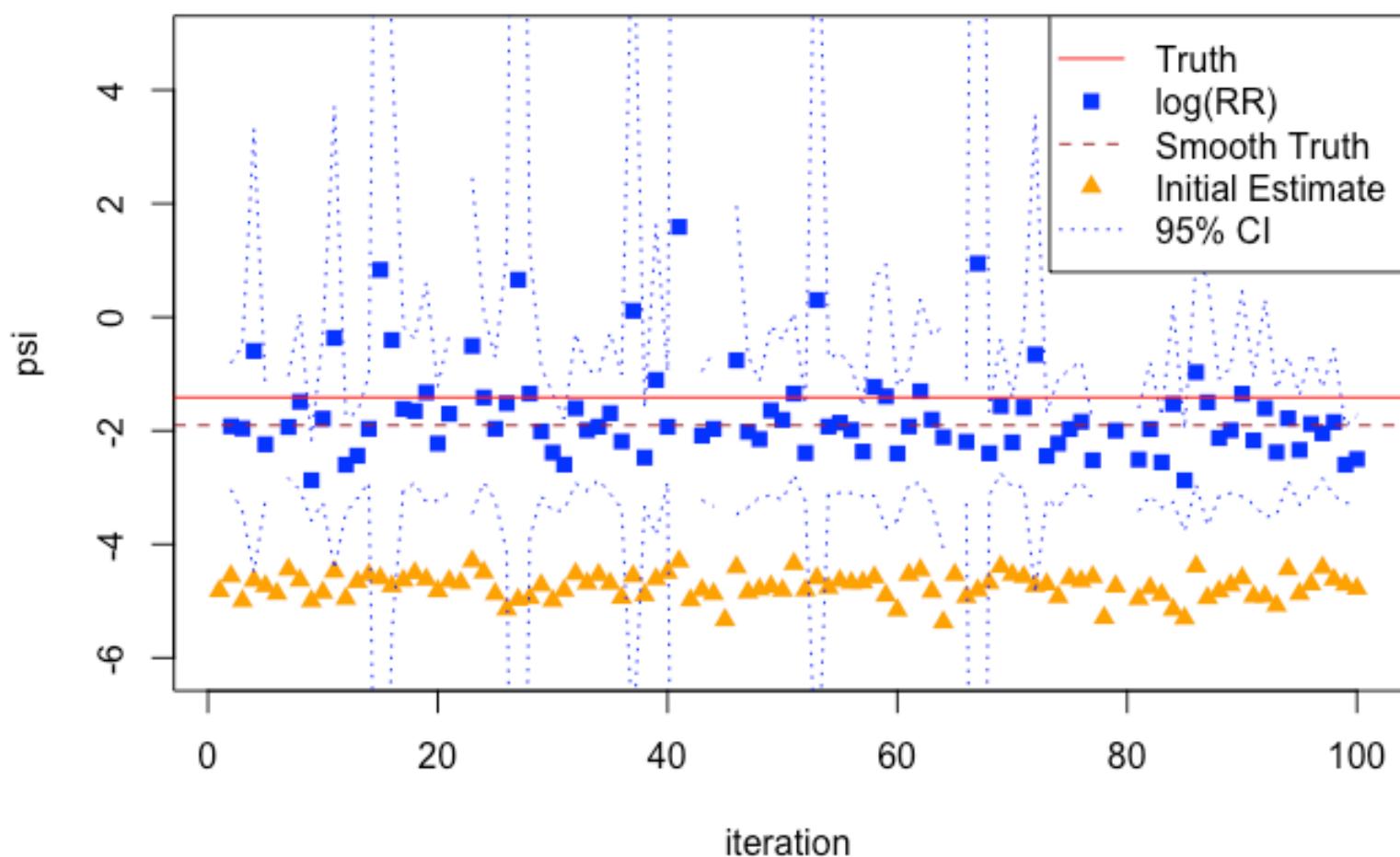
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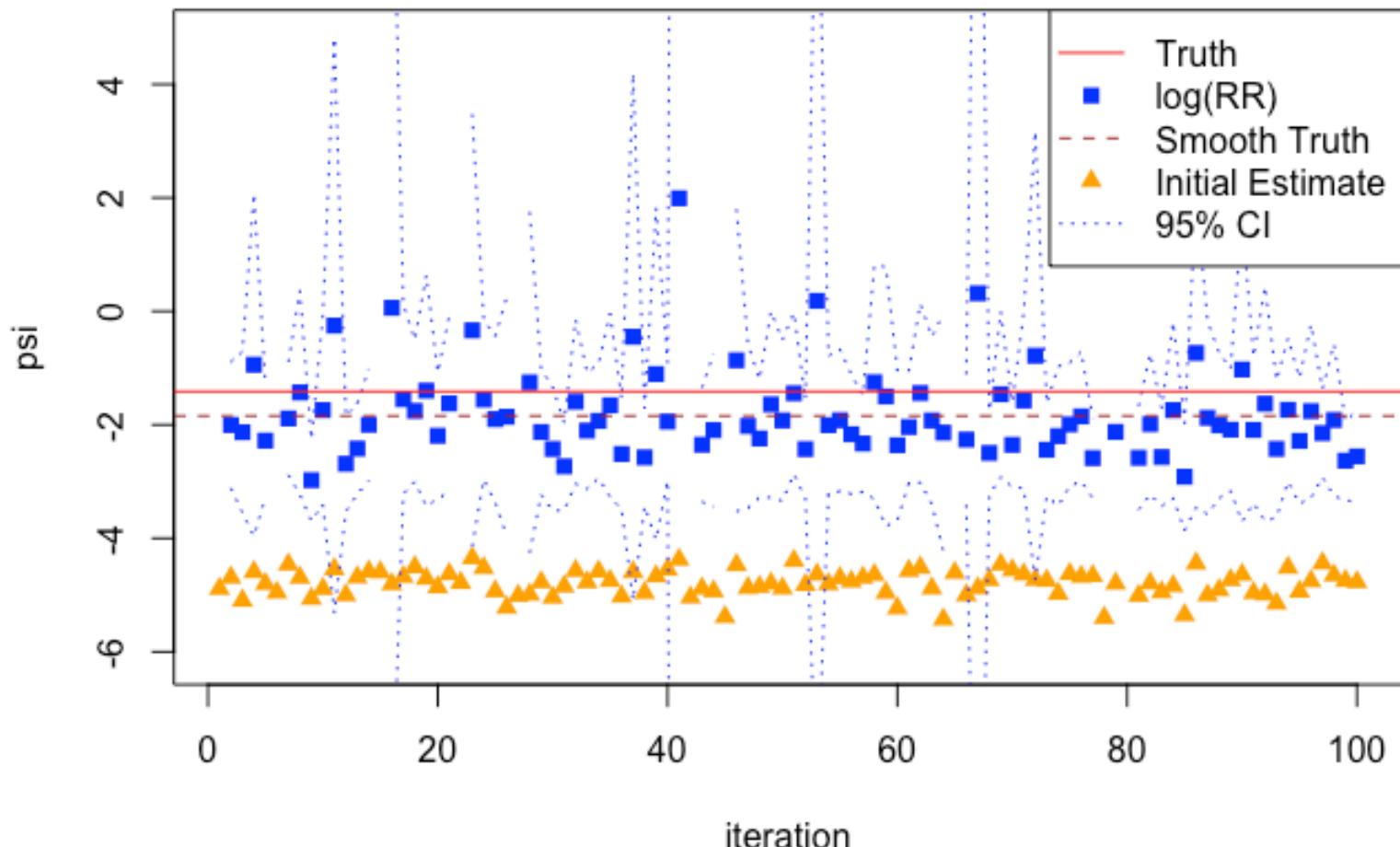
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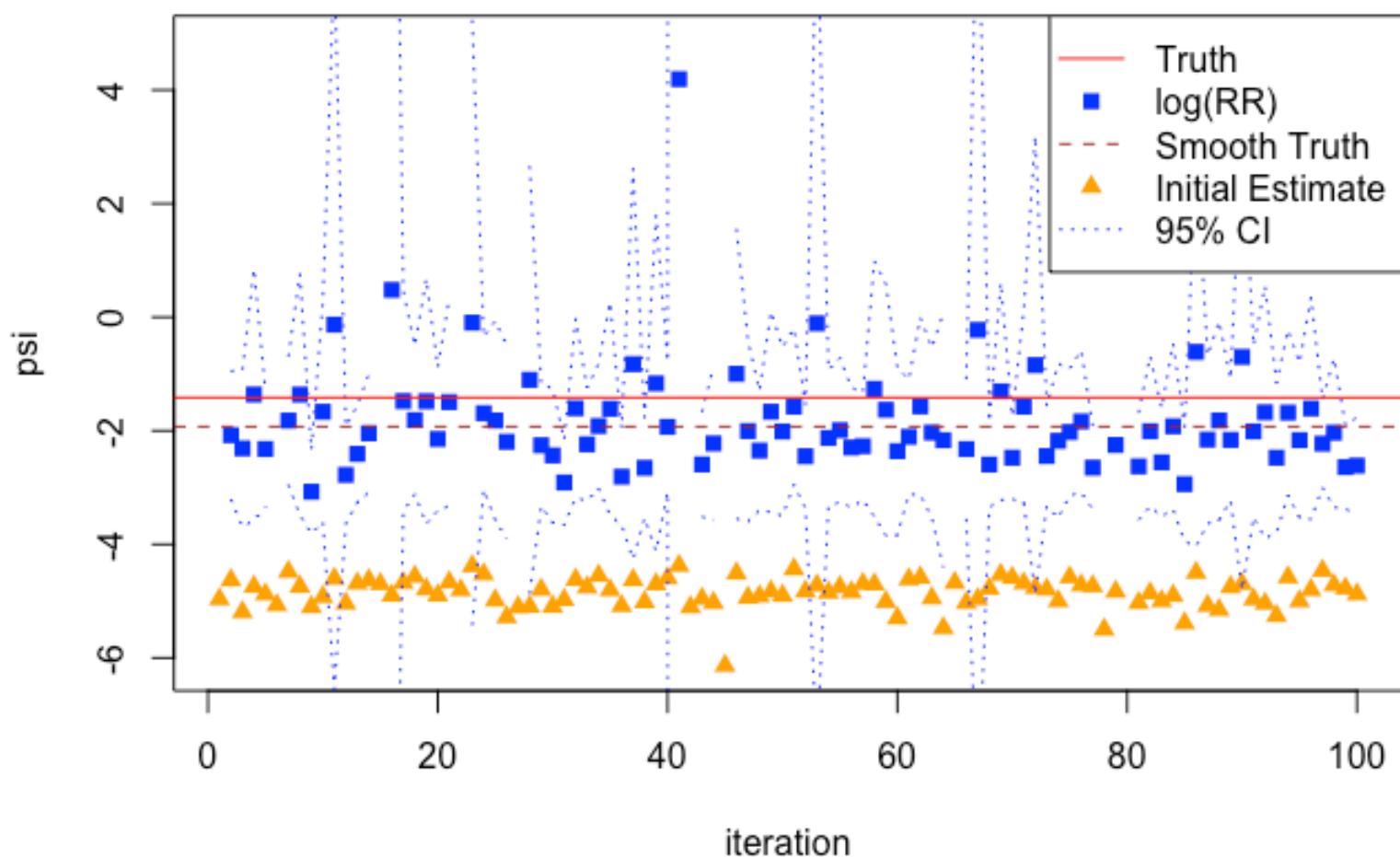
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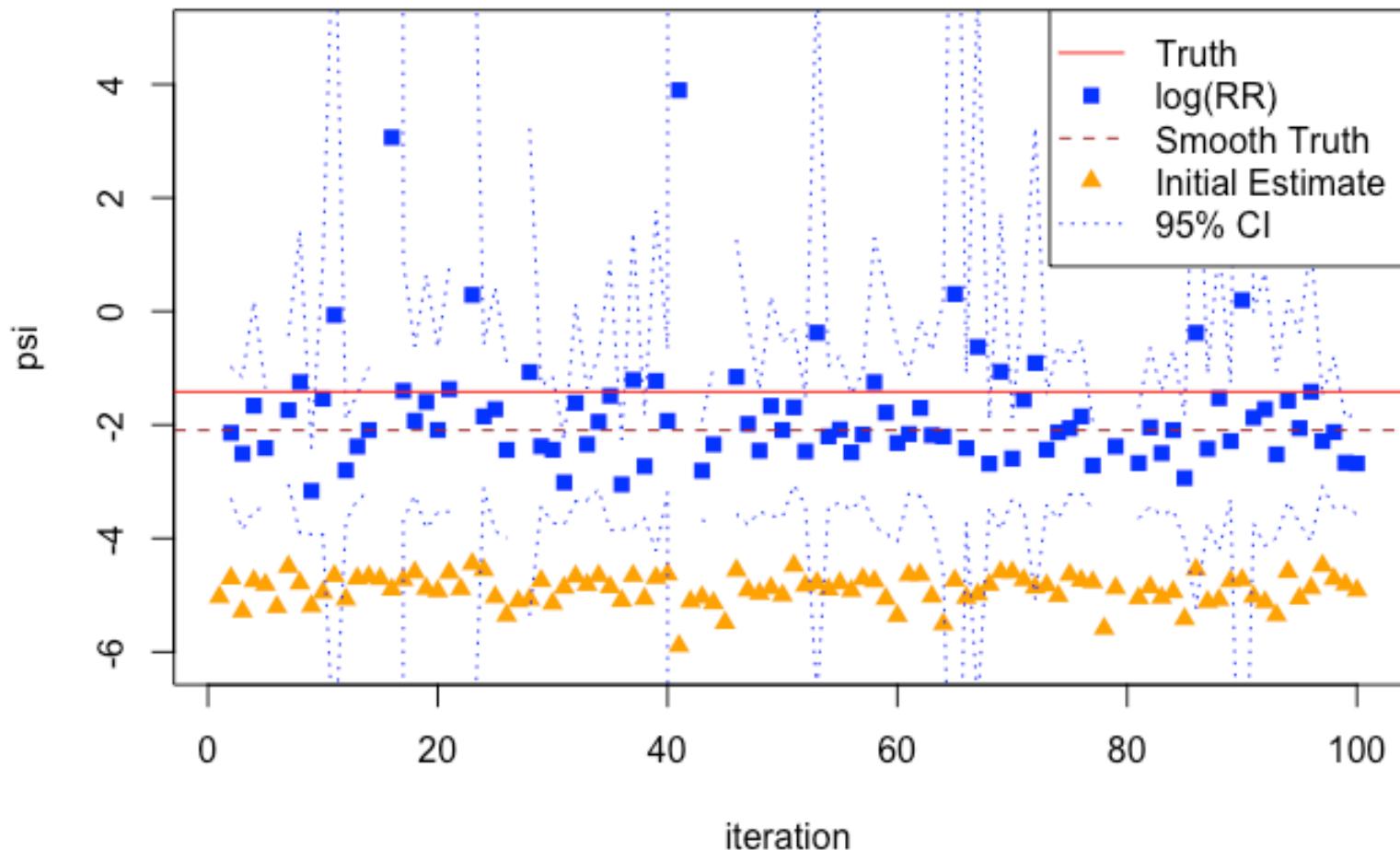
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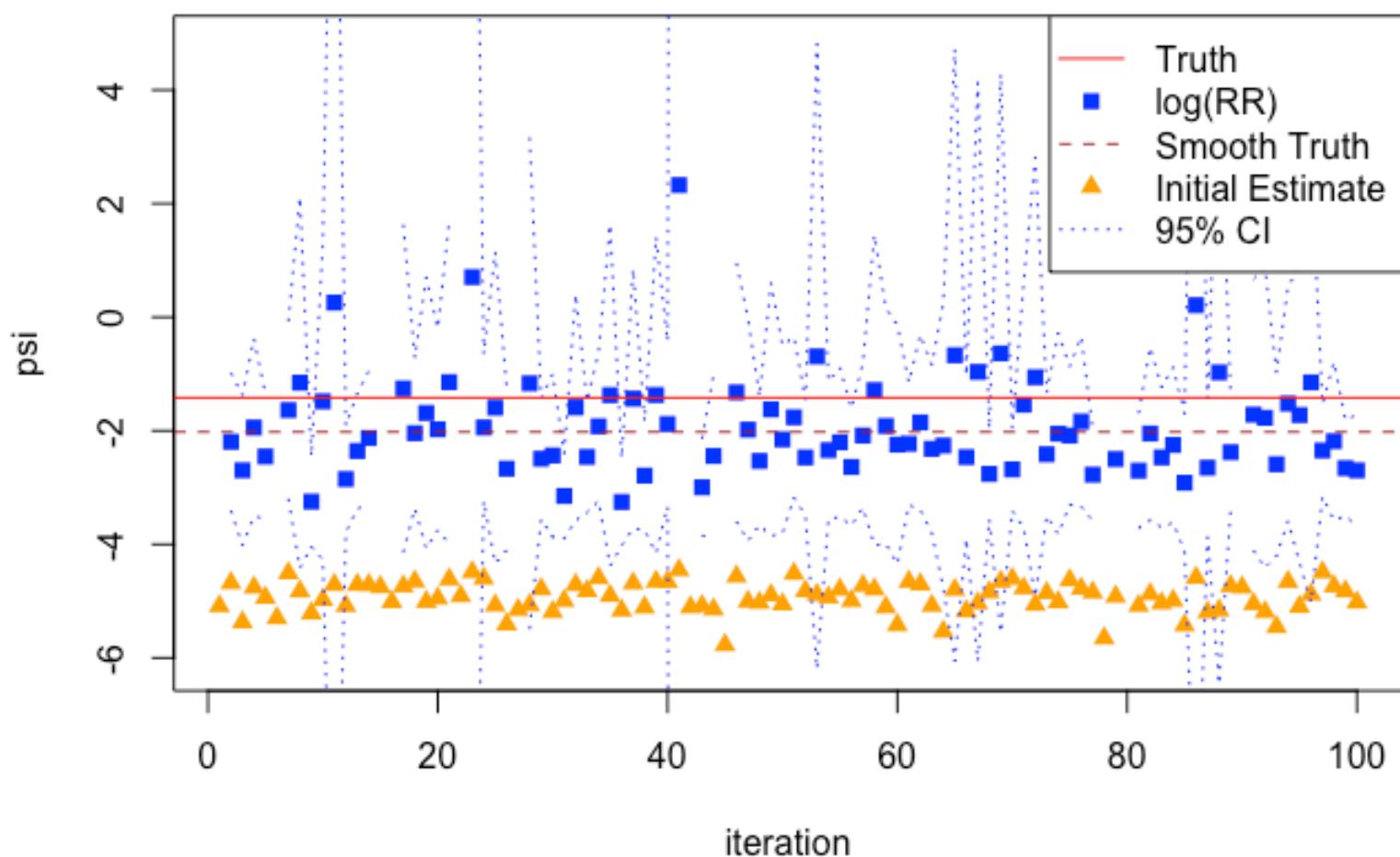
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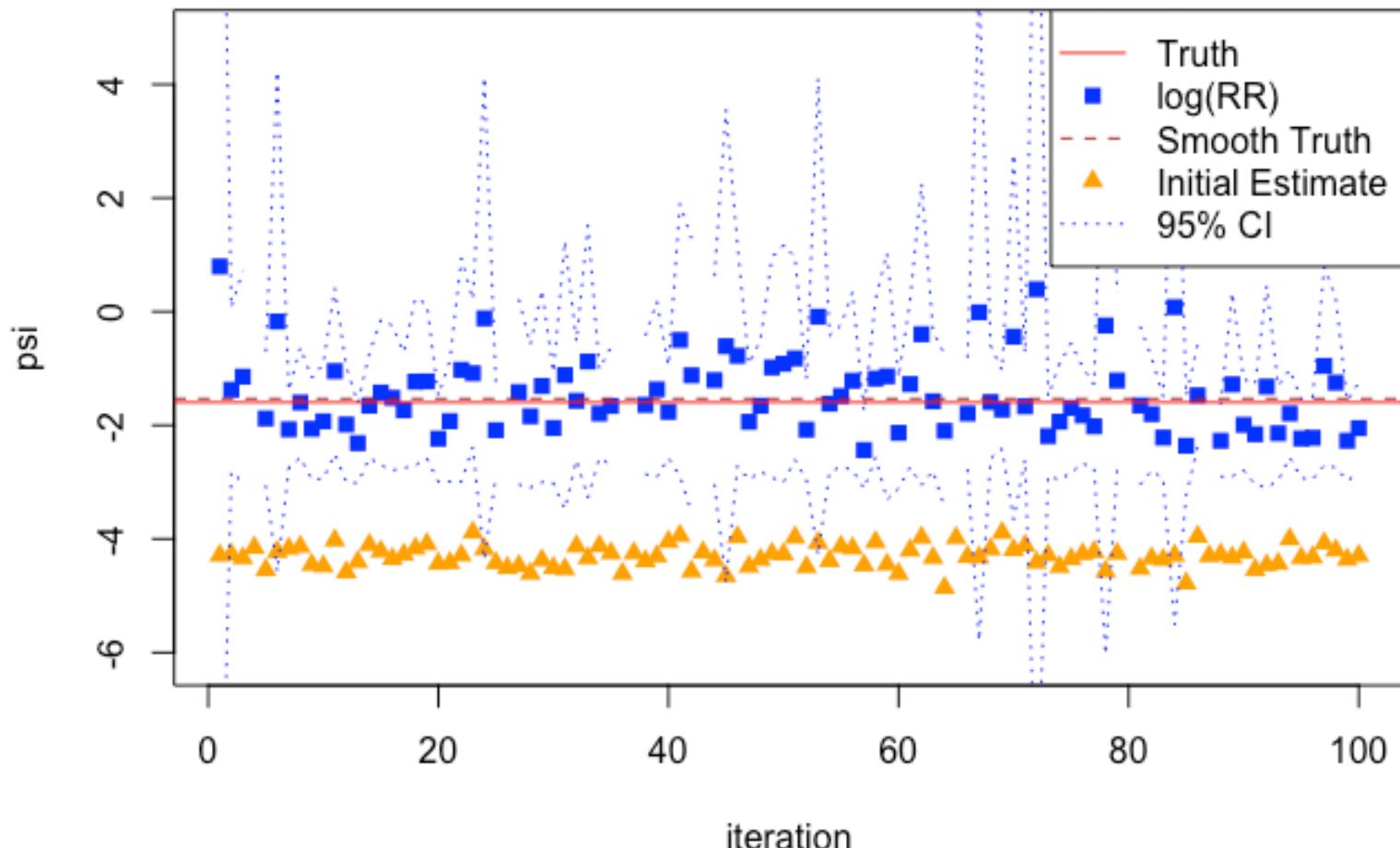
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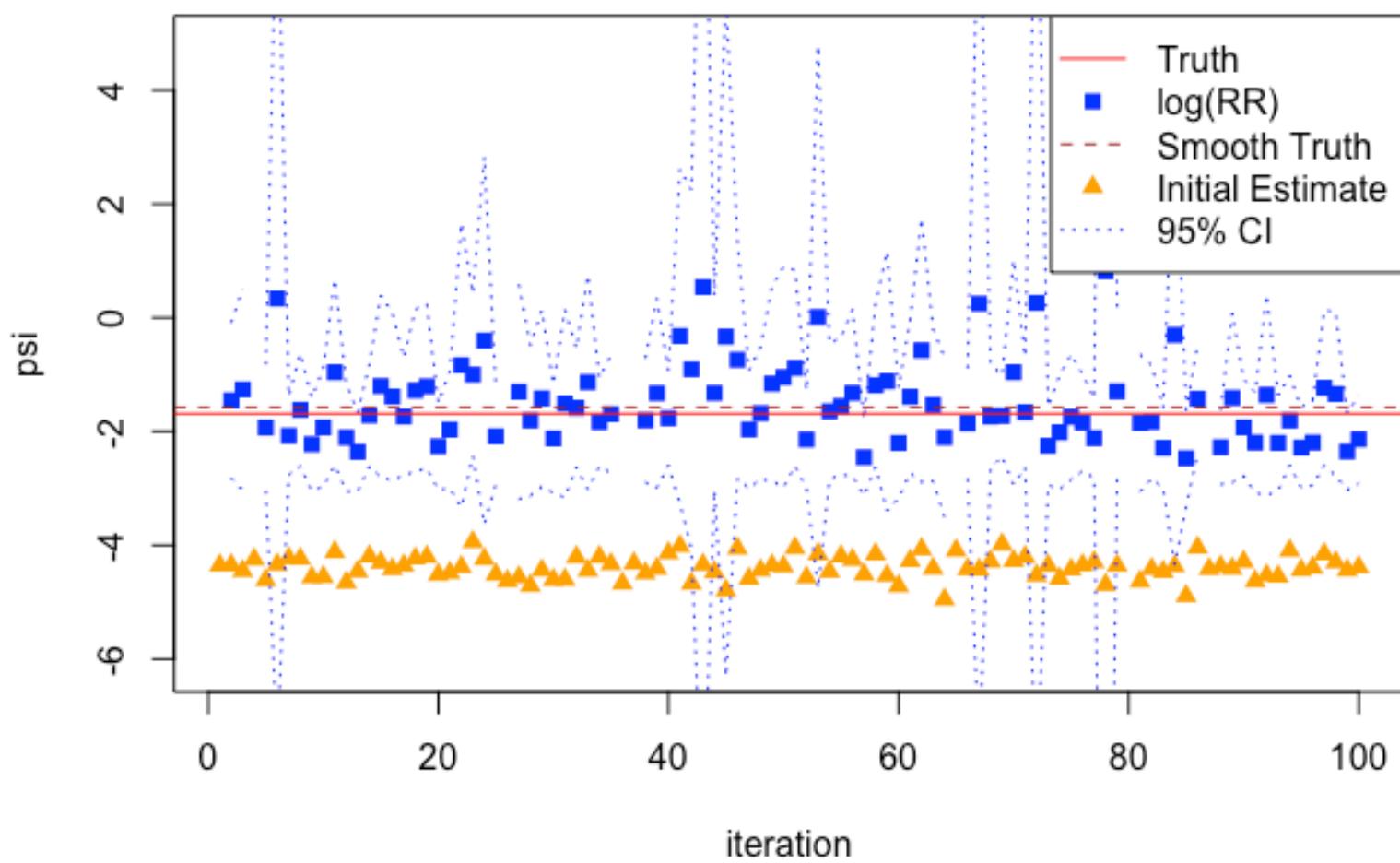
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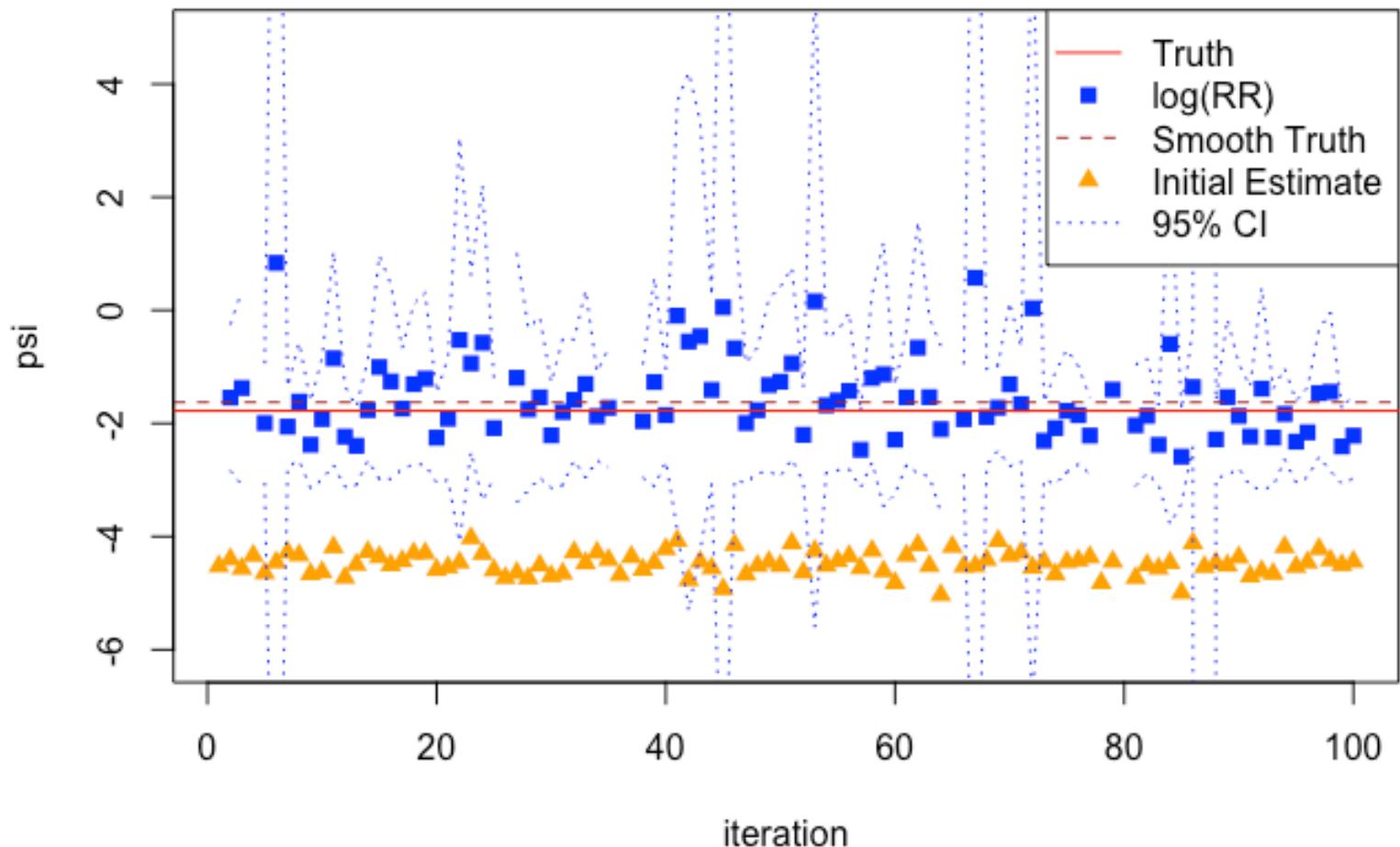
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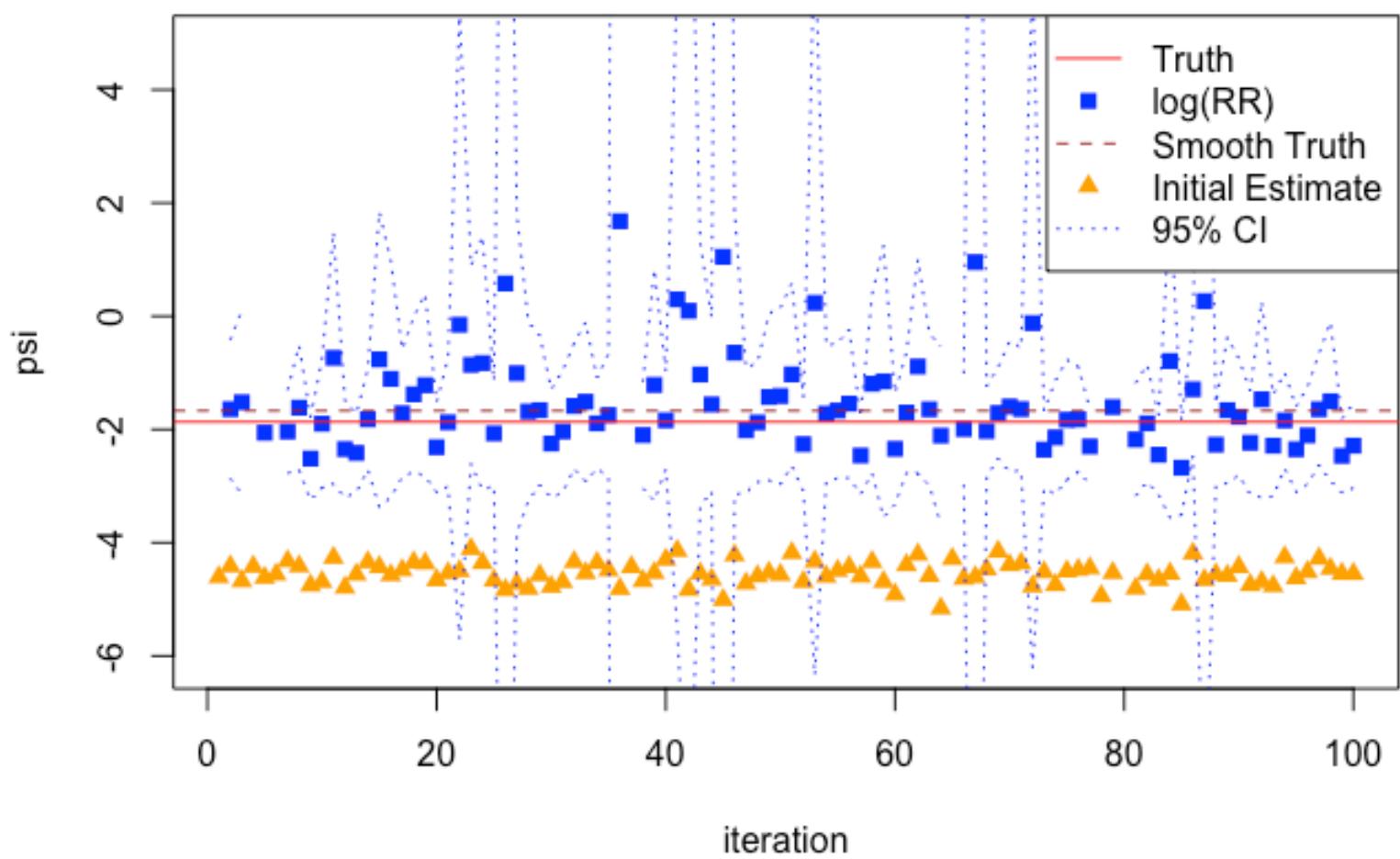
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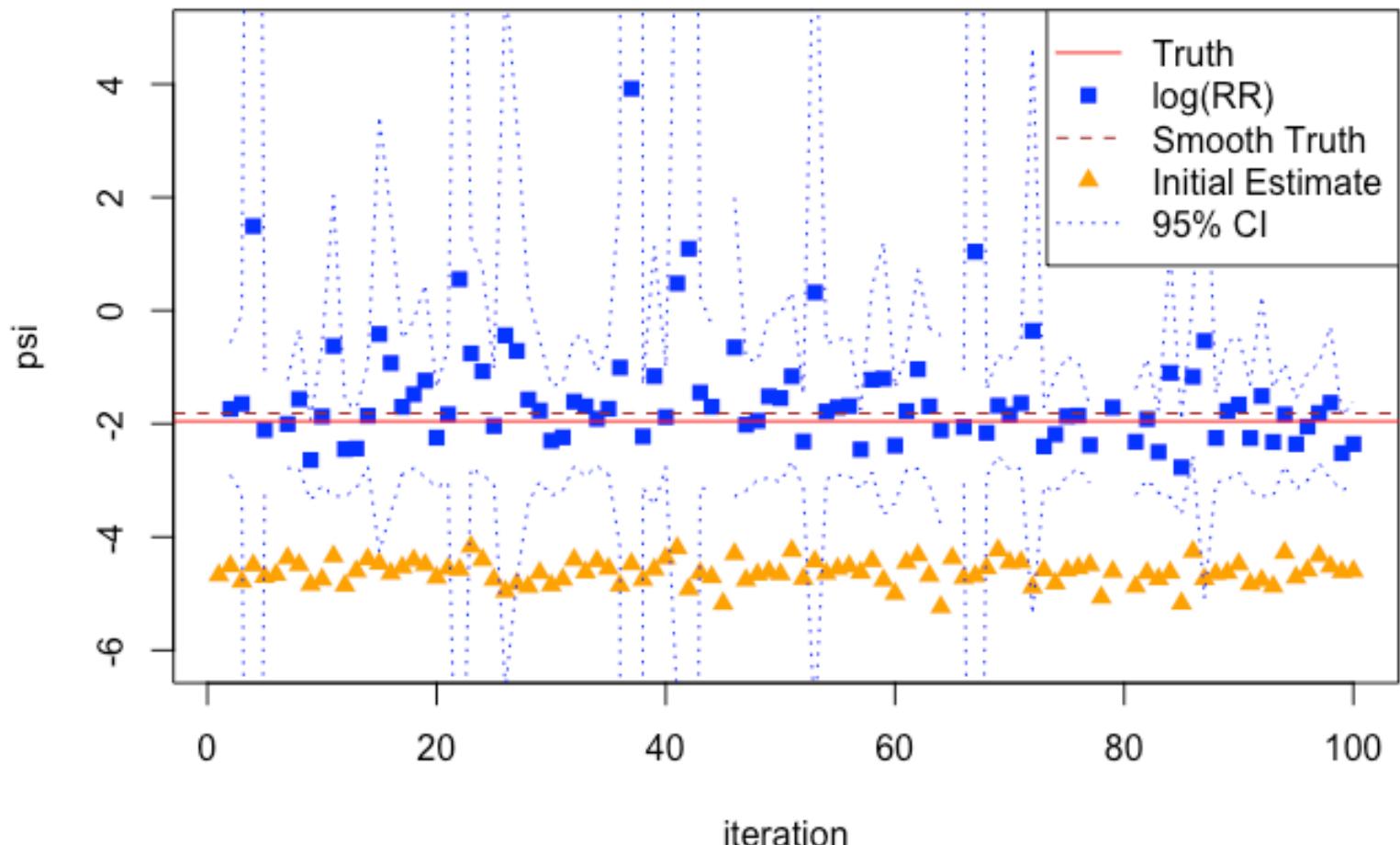
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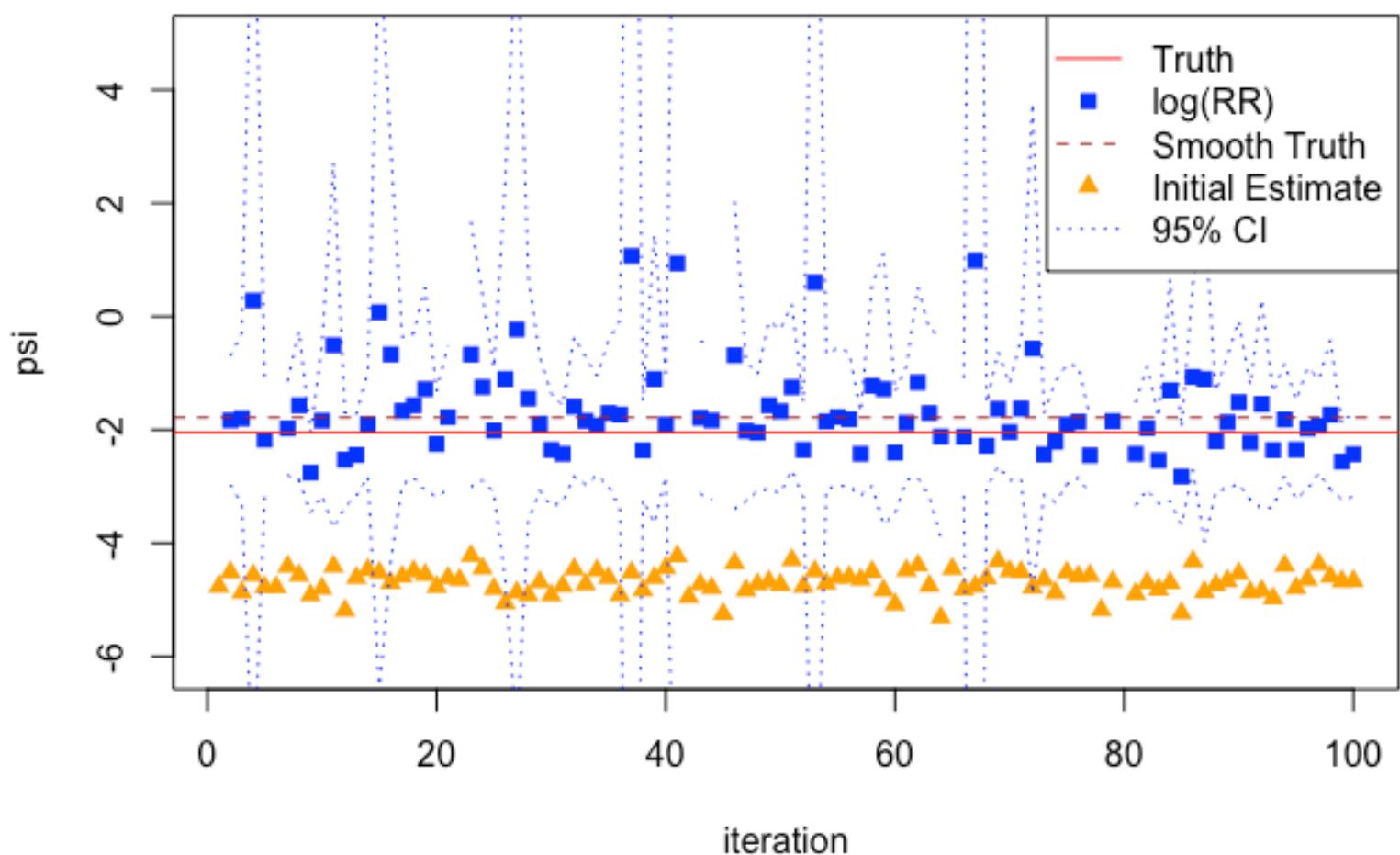
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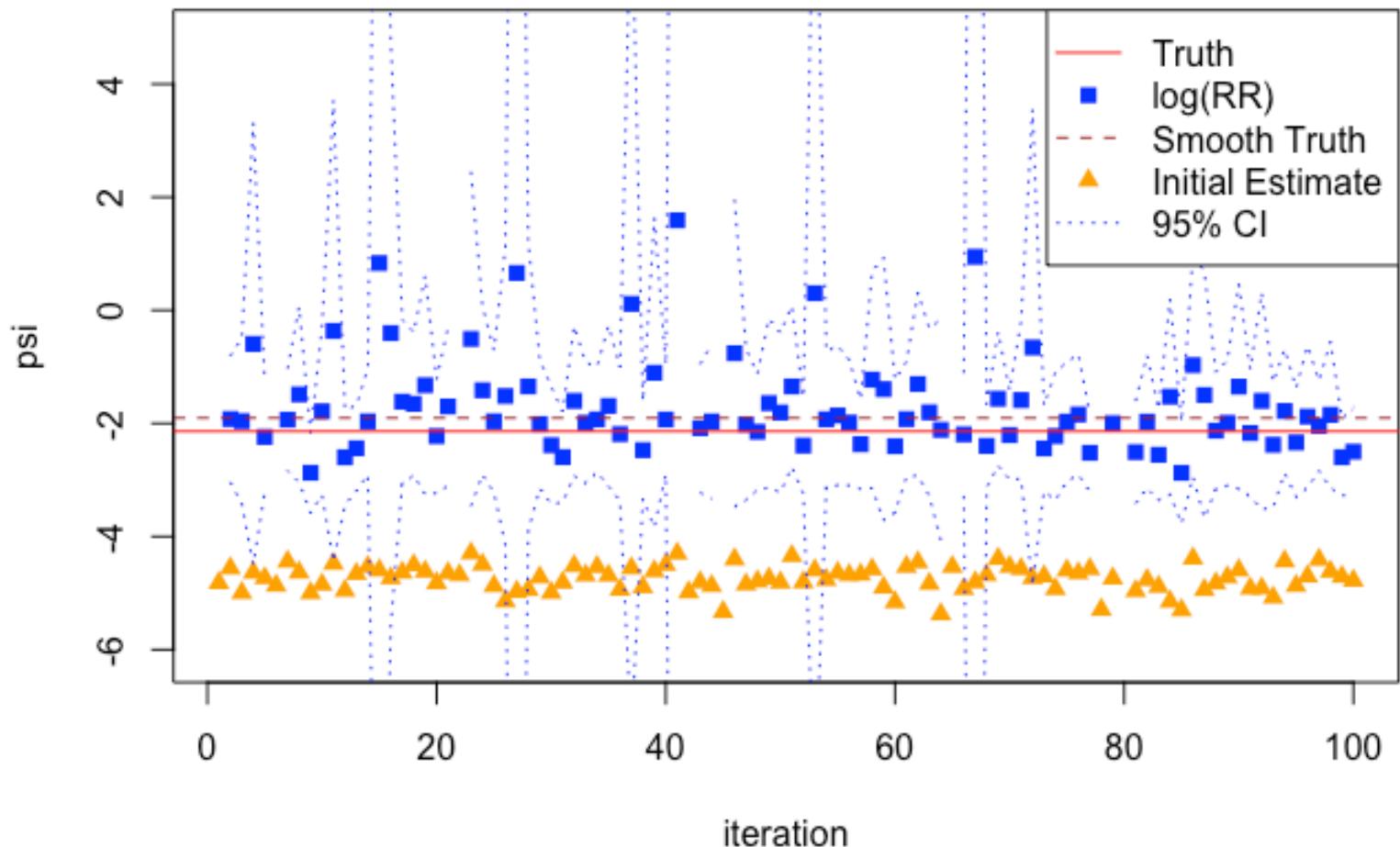
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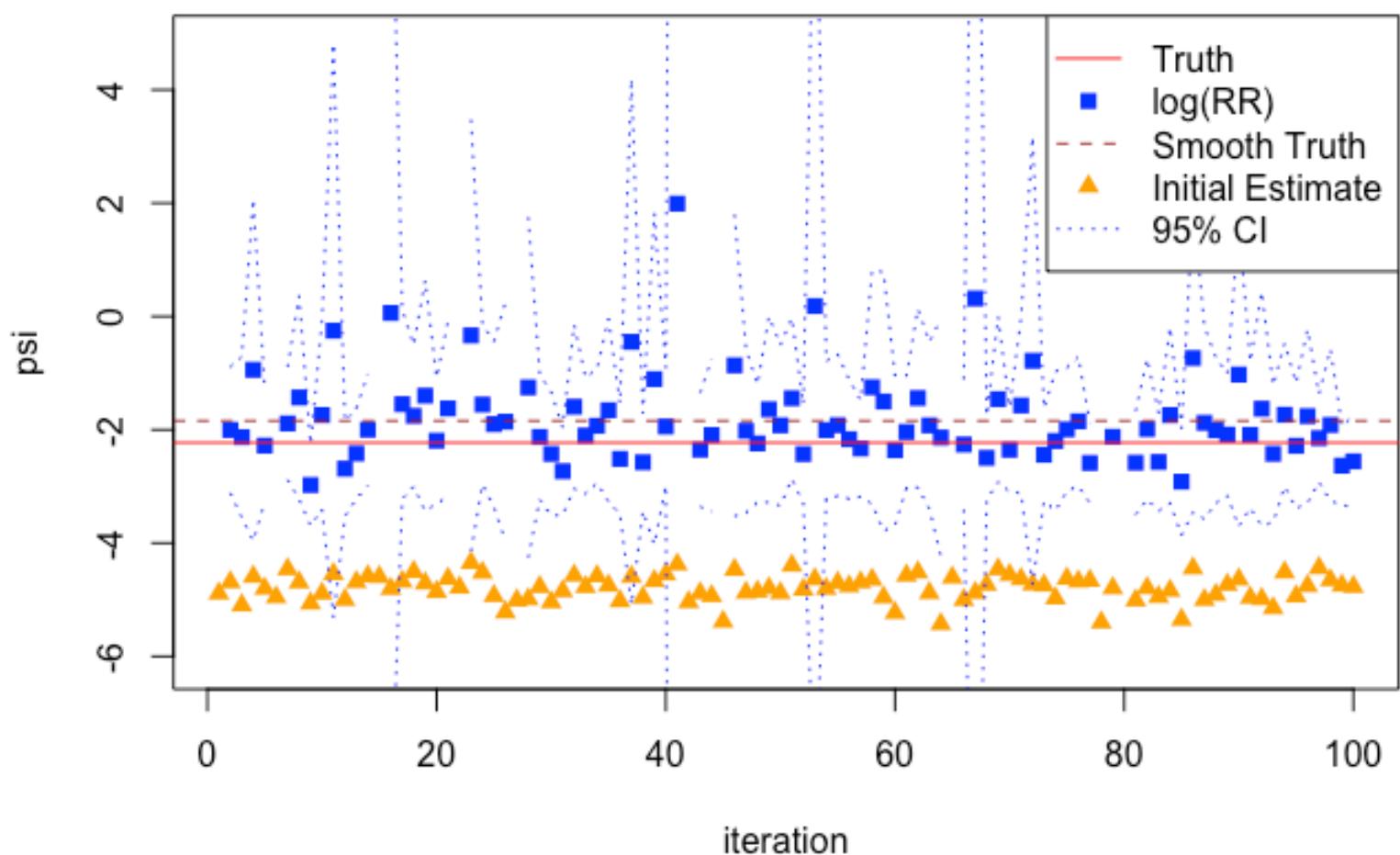
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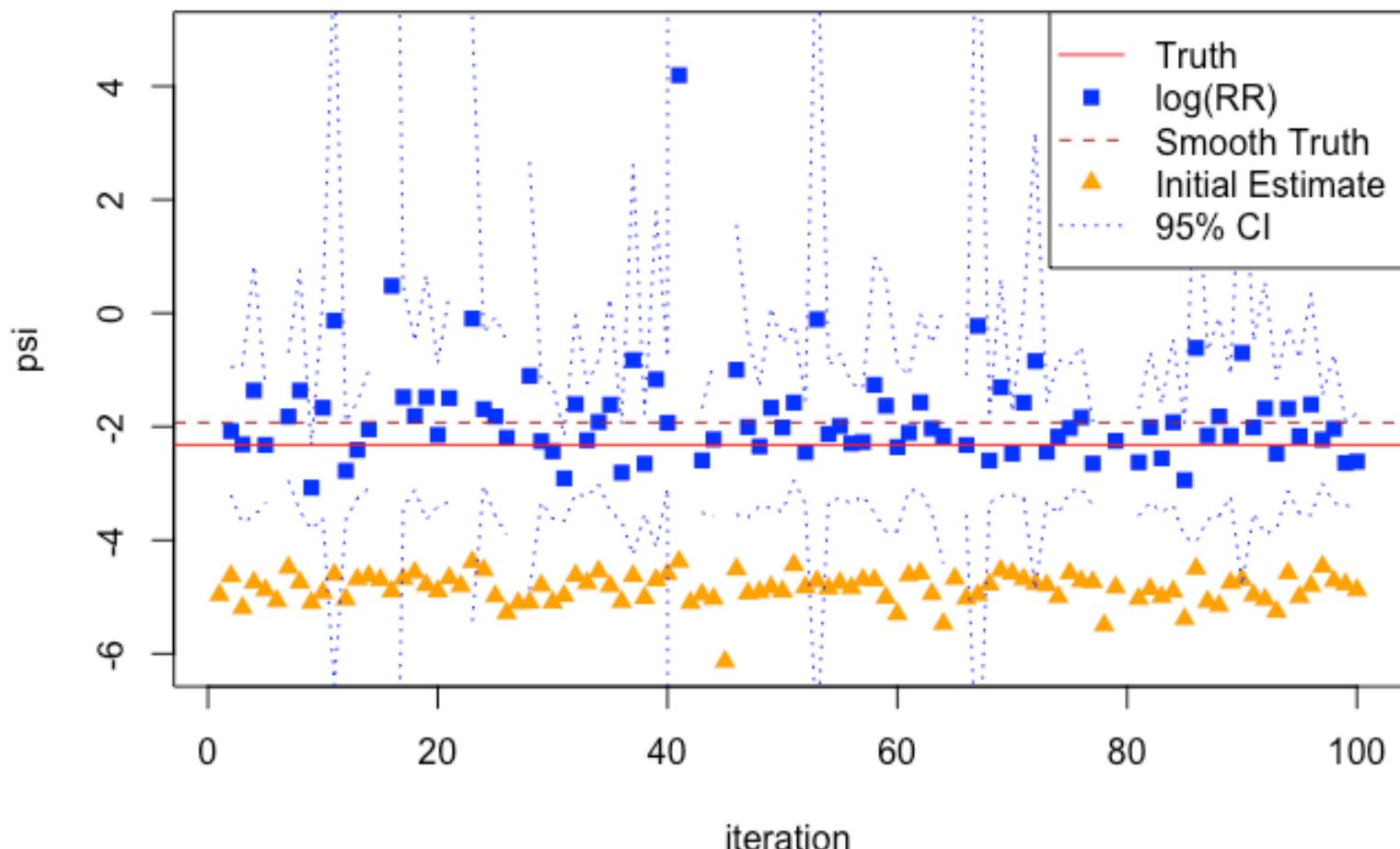
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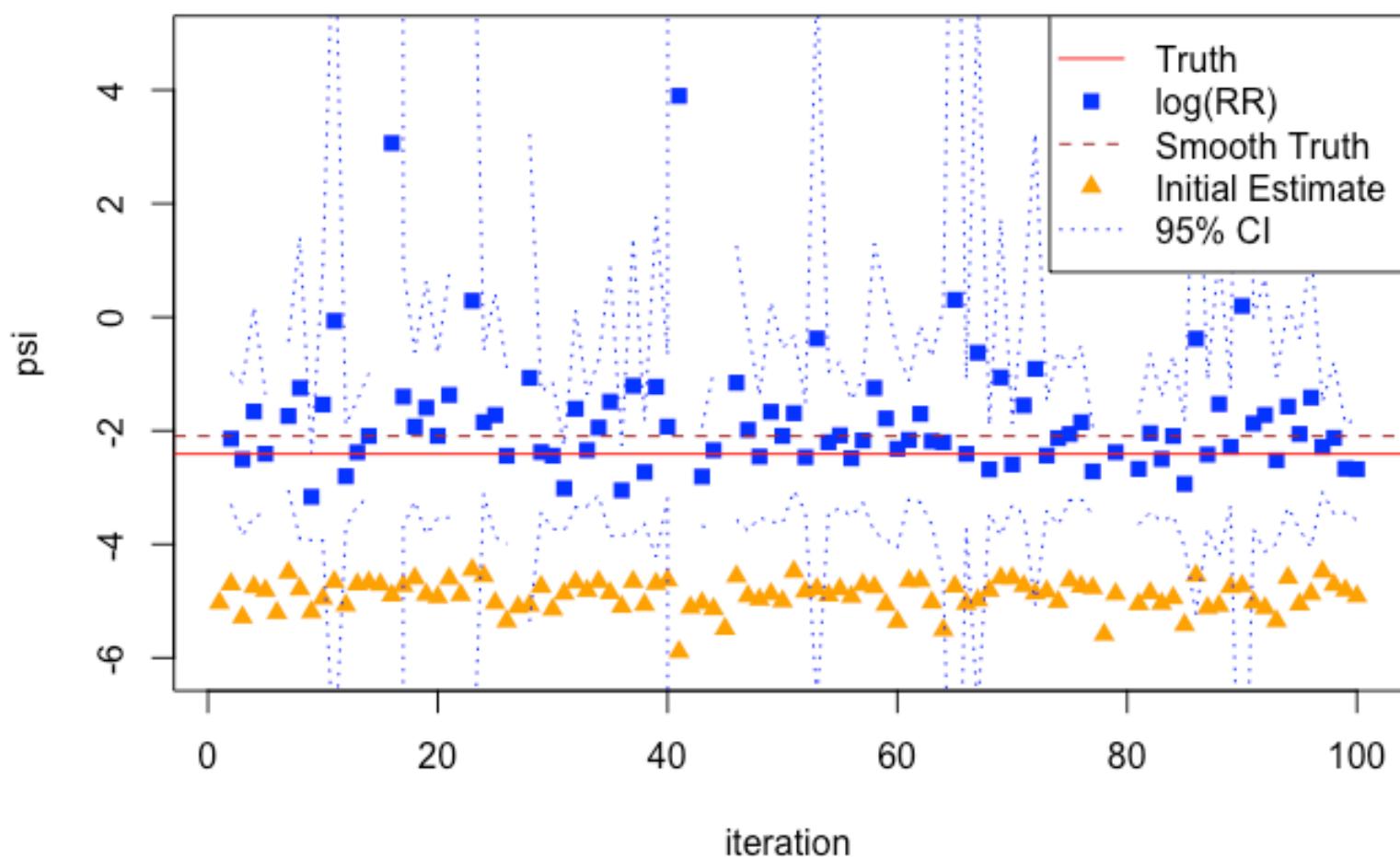
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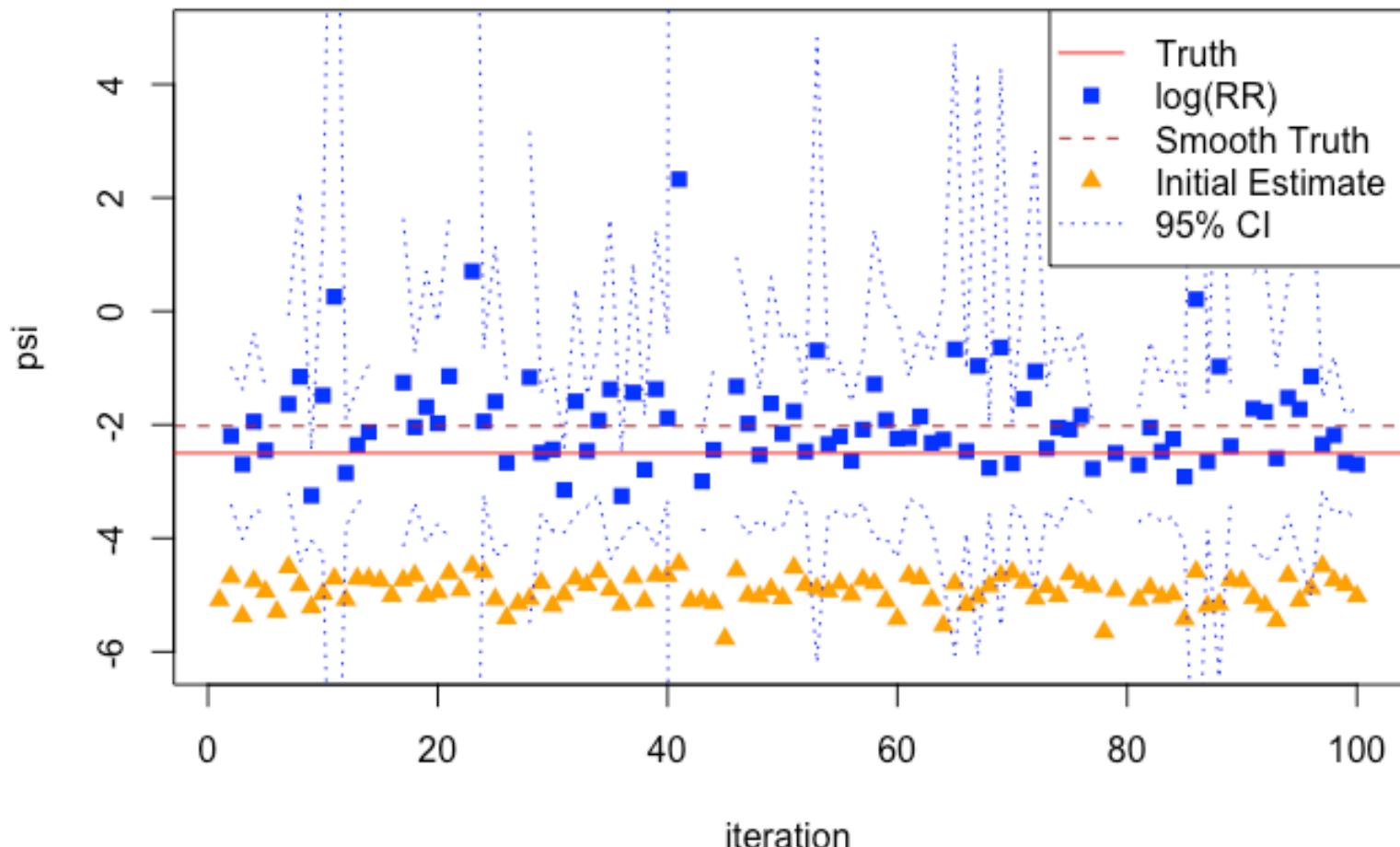
s1=0.8 Alternative case for cor(S1,W)=0.25, crossover rate=0.5, sample rate=0.25



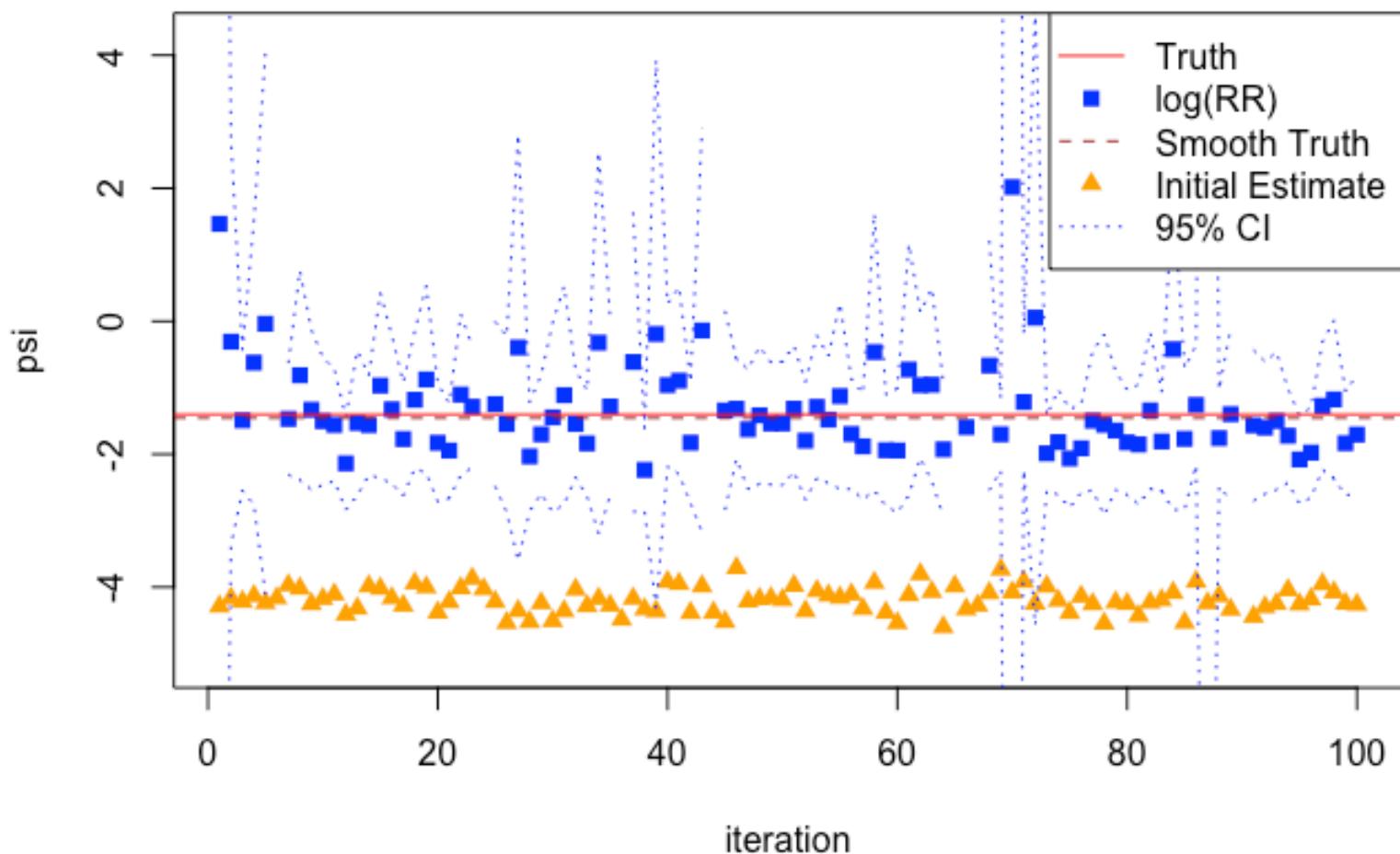
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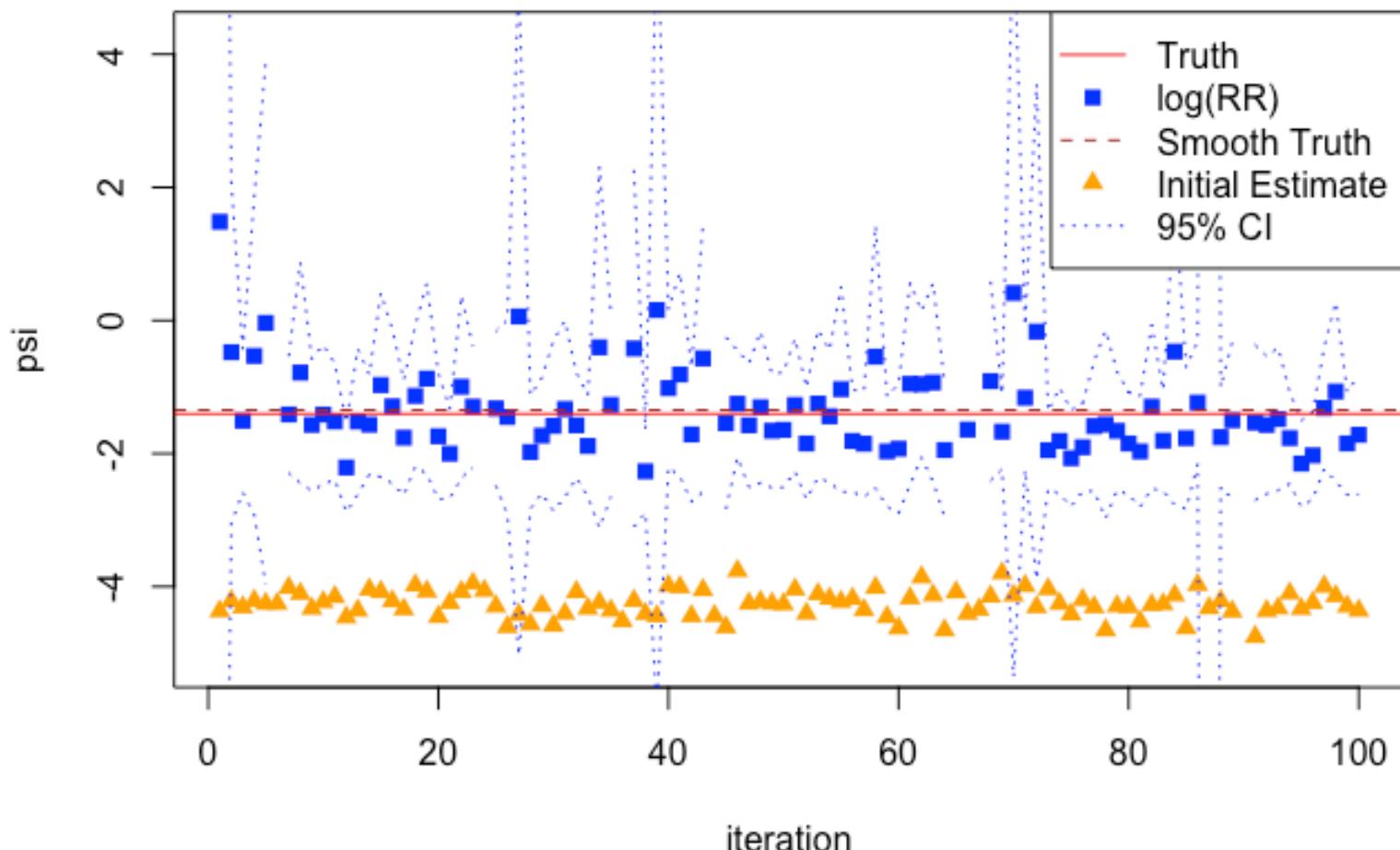
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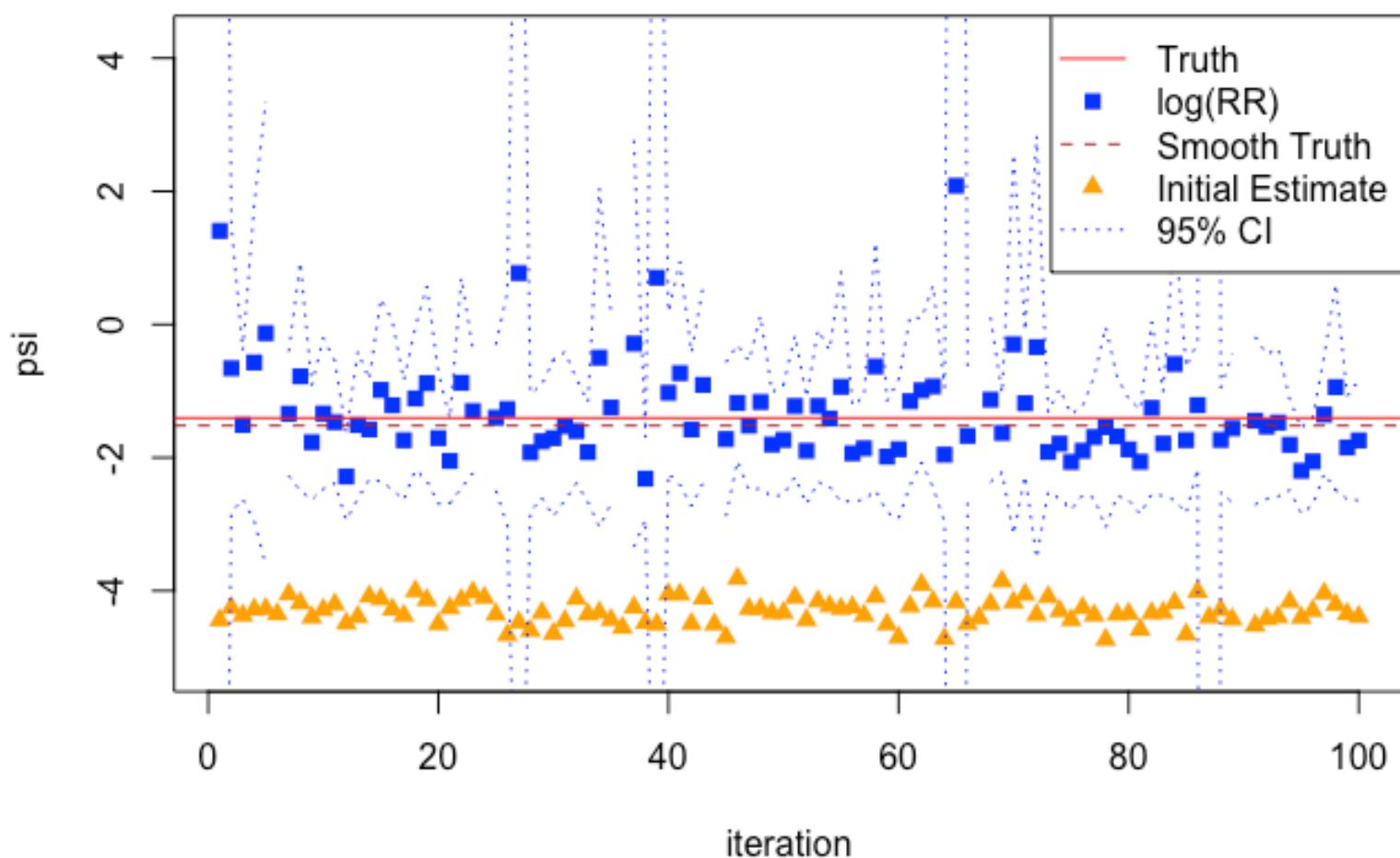
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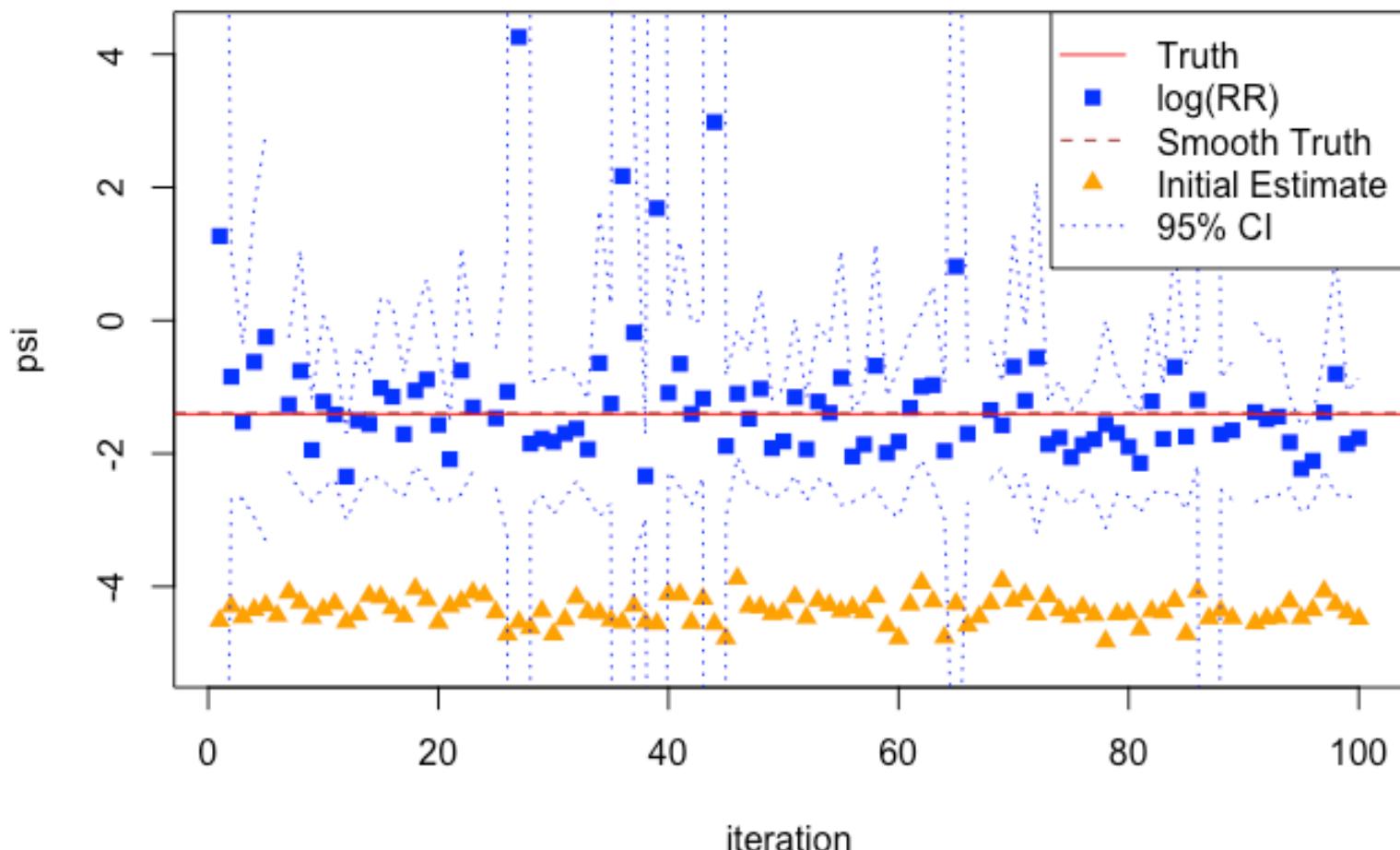
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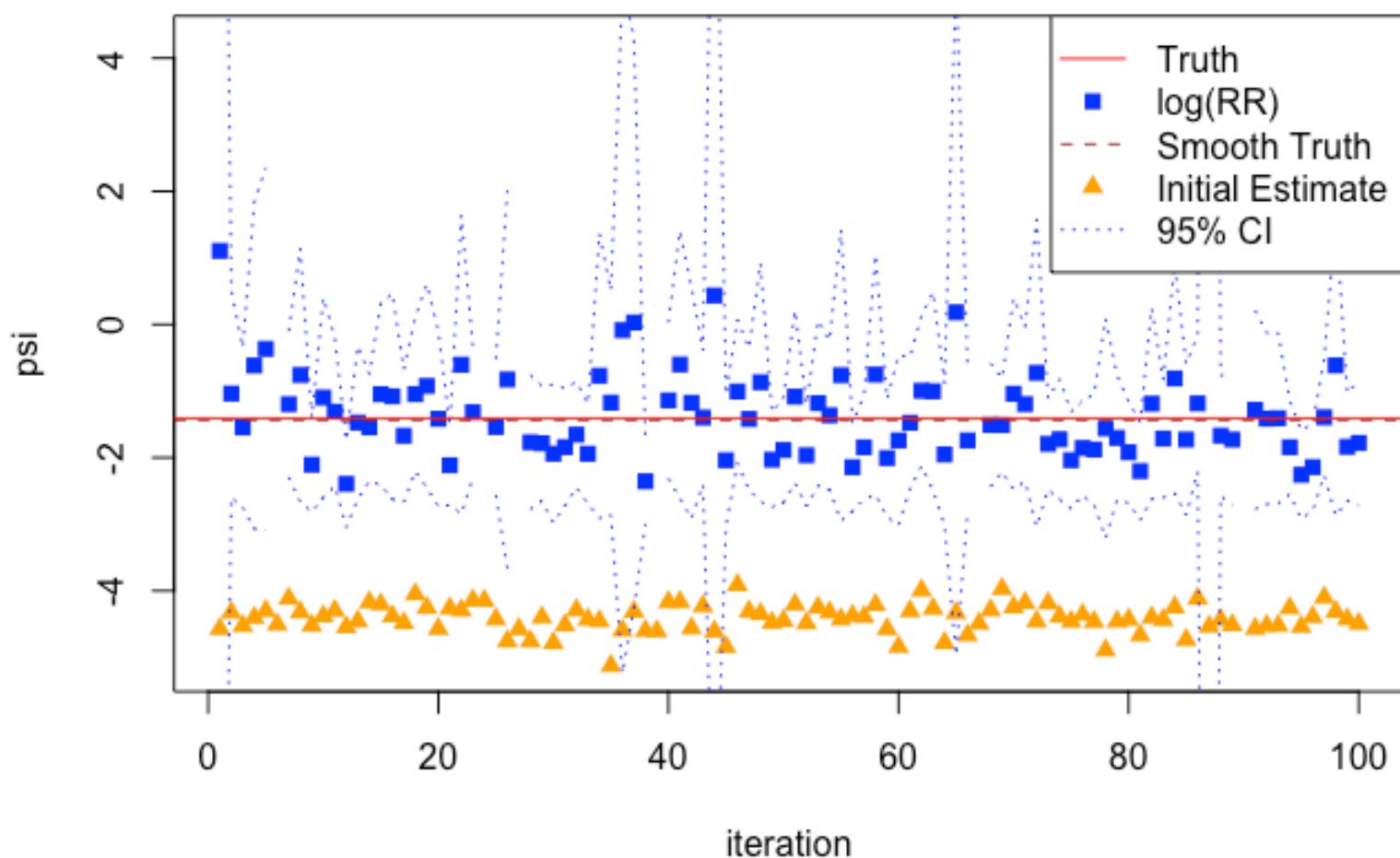
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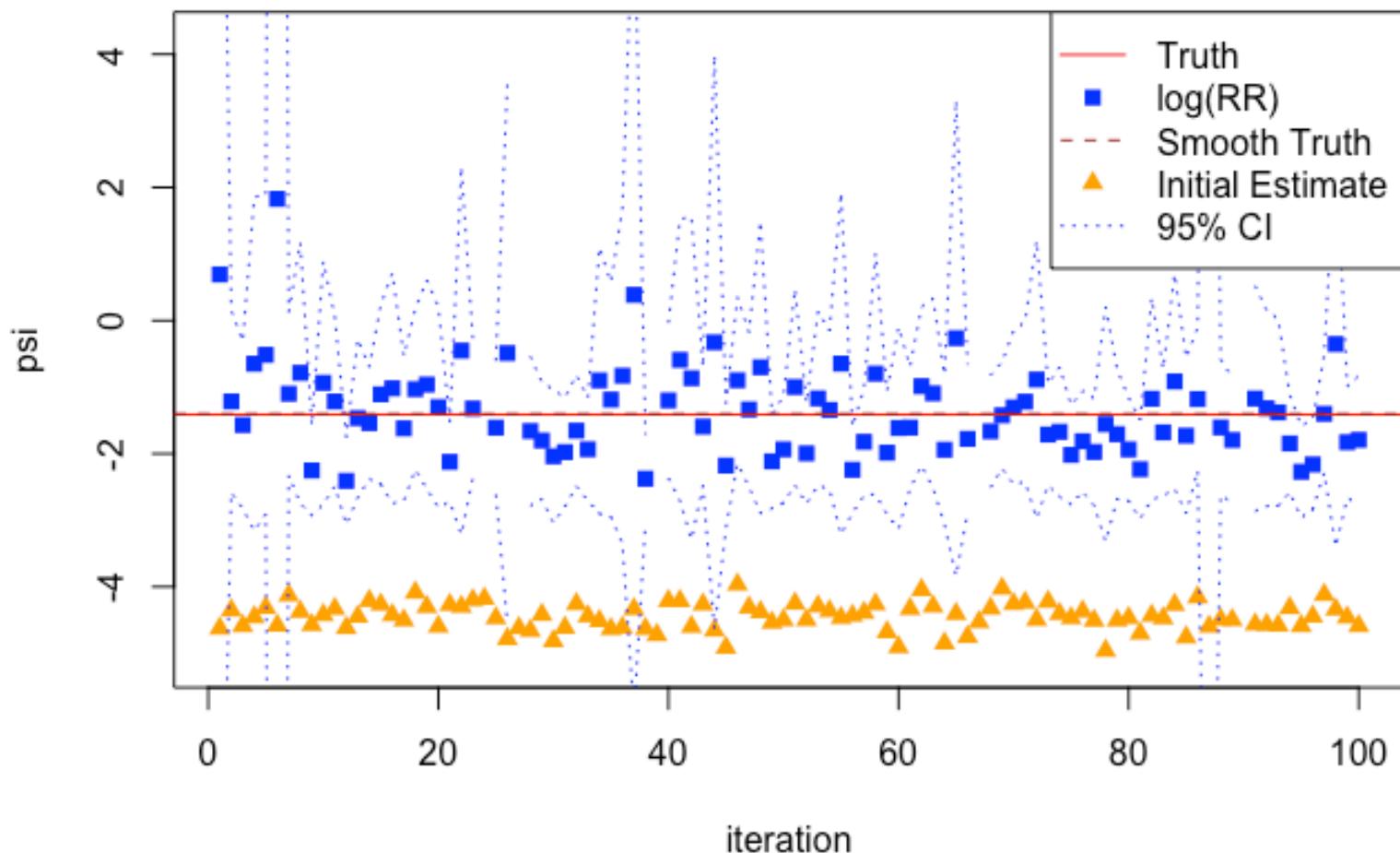
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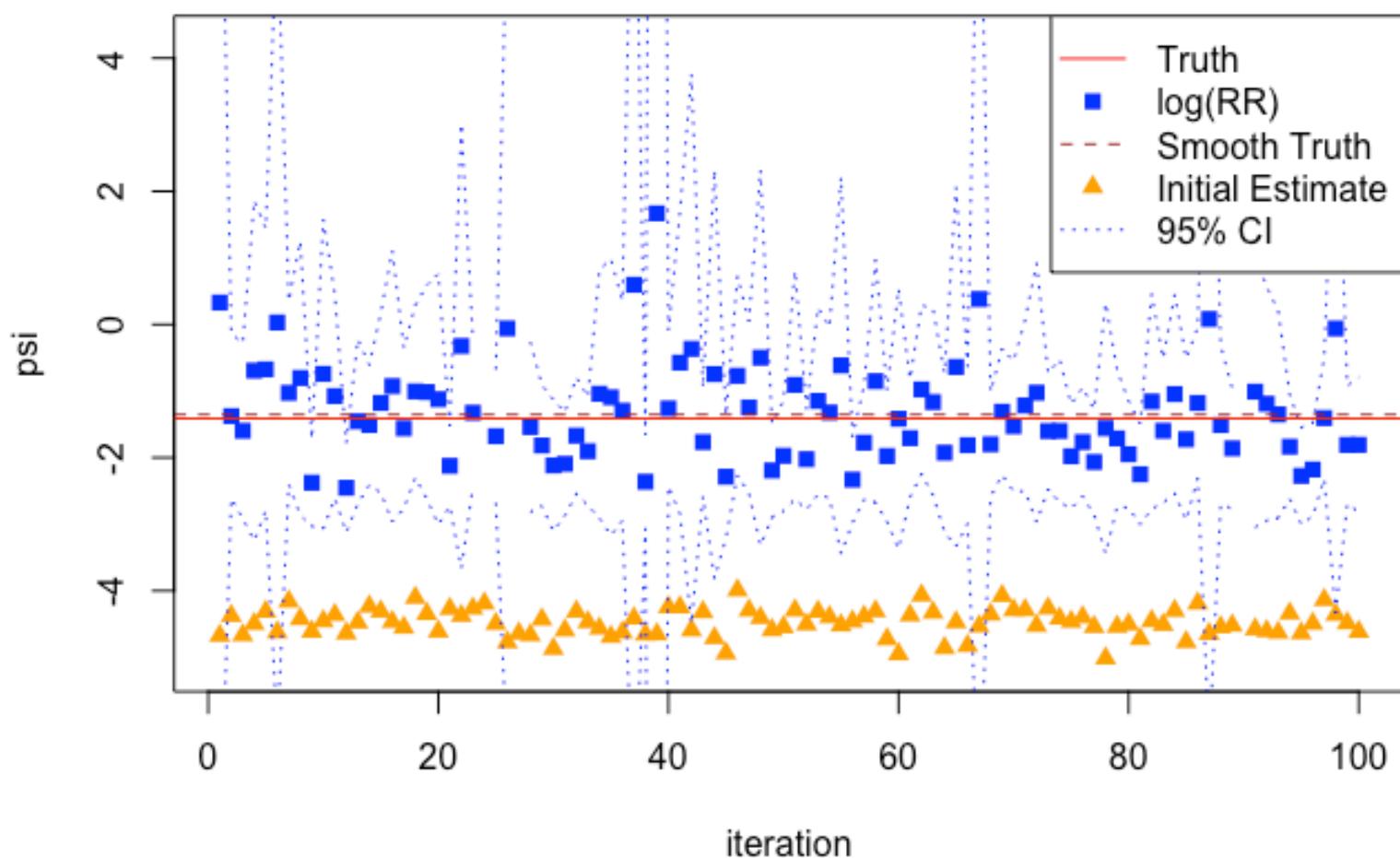
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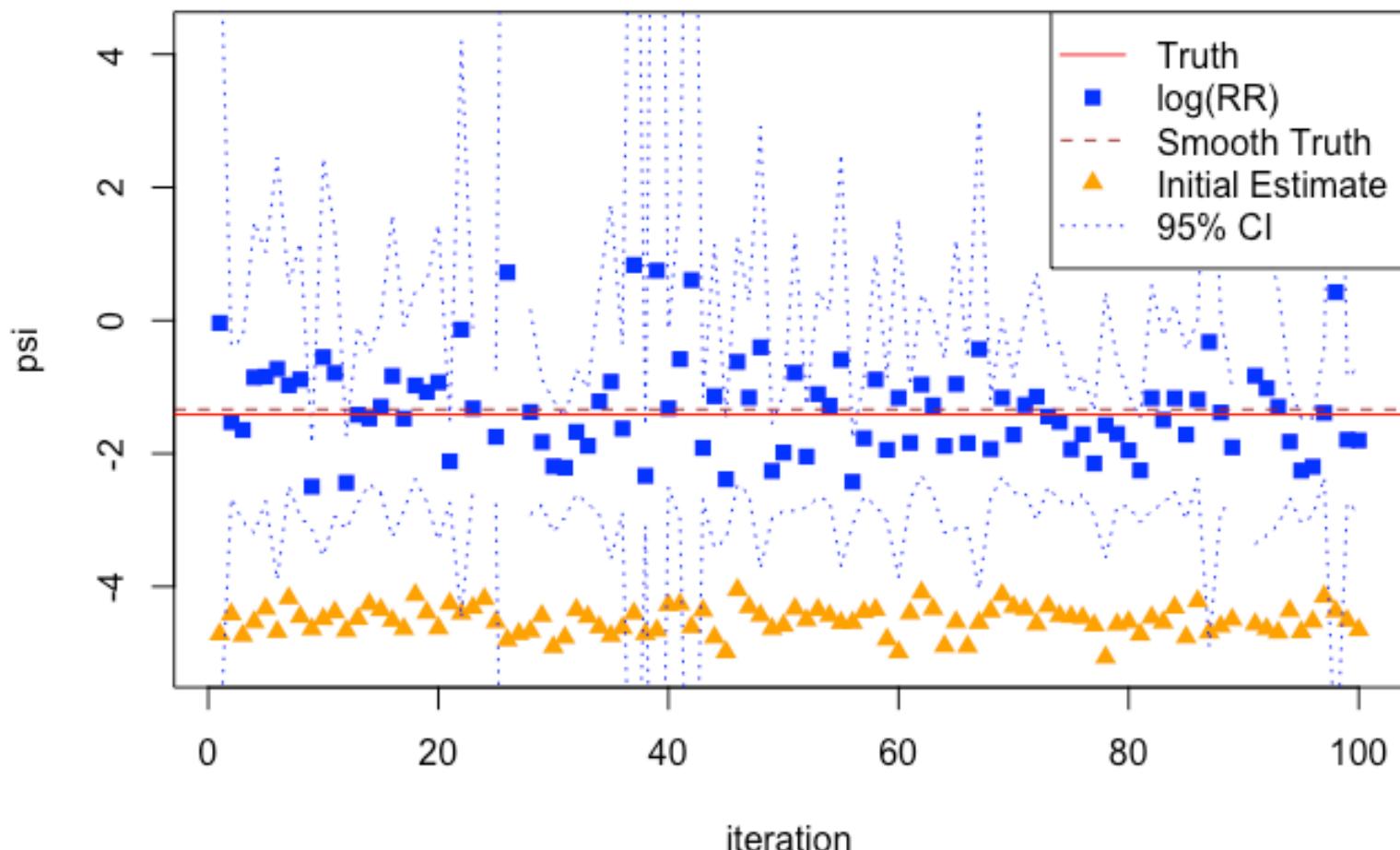
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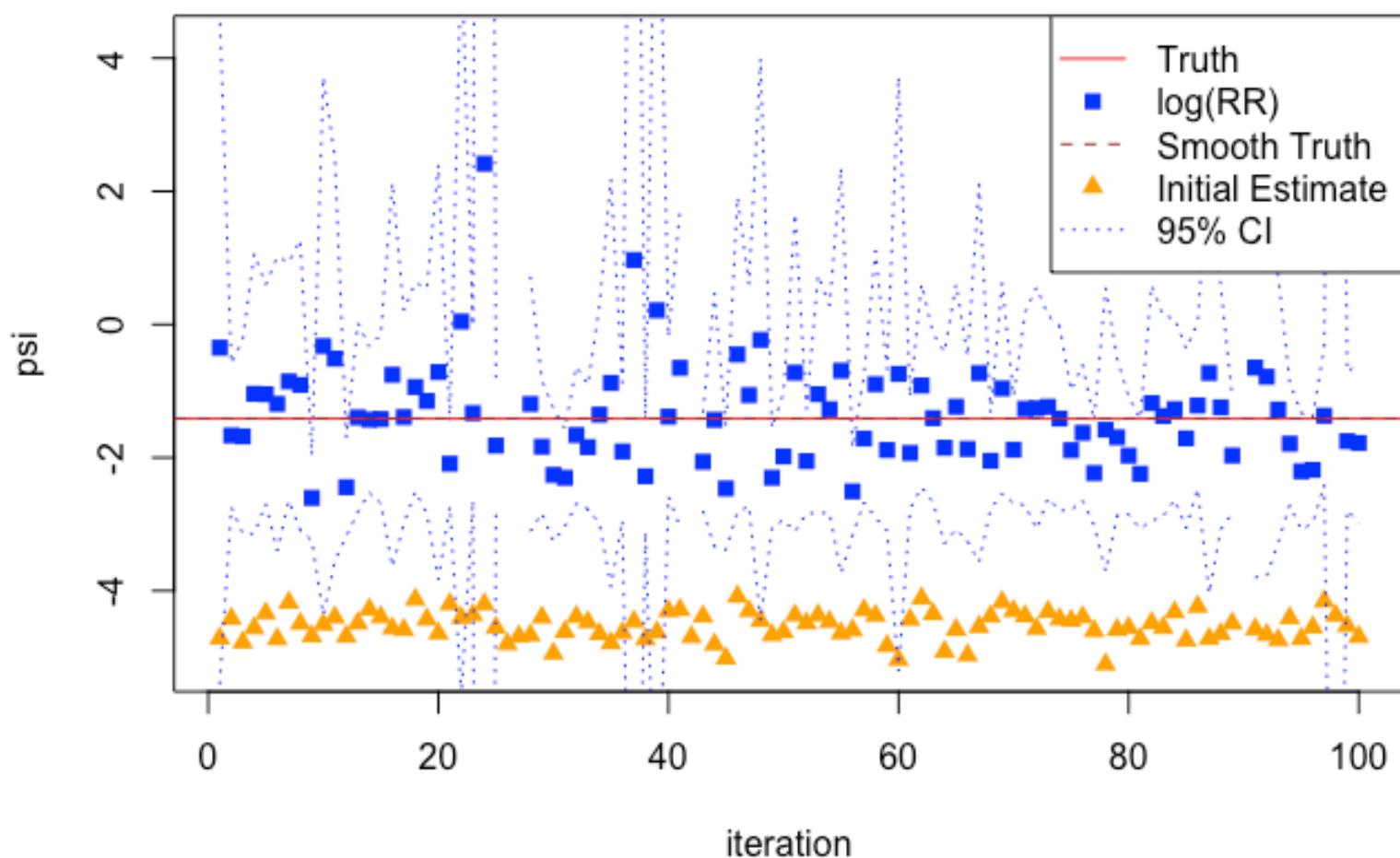
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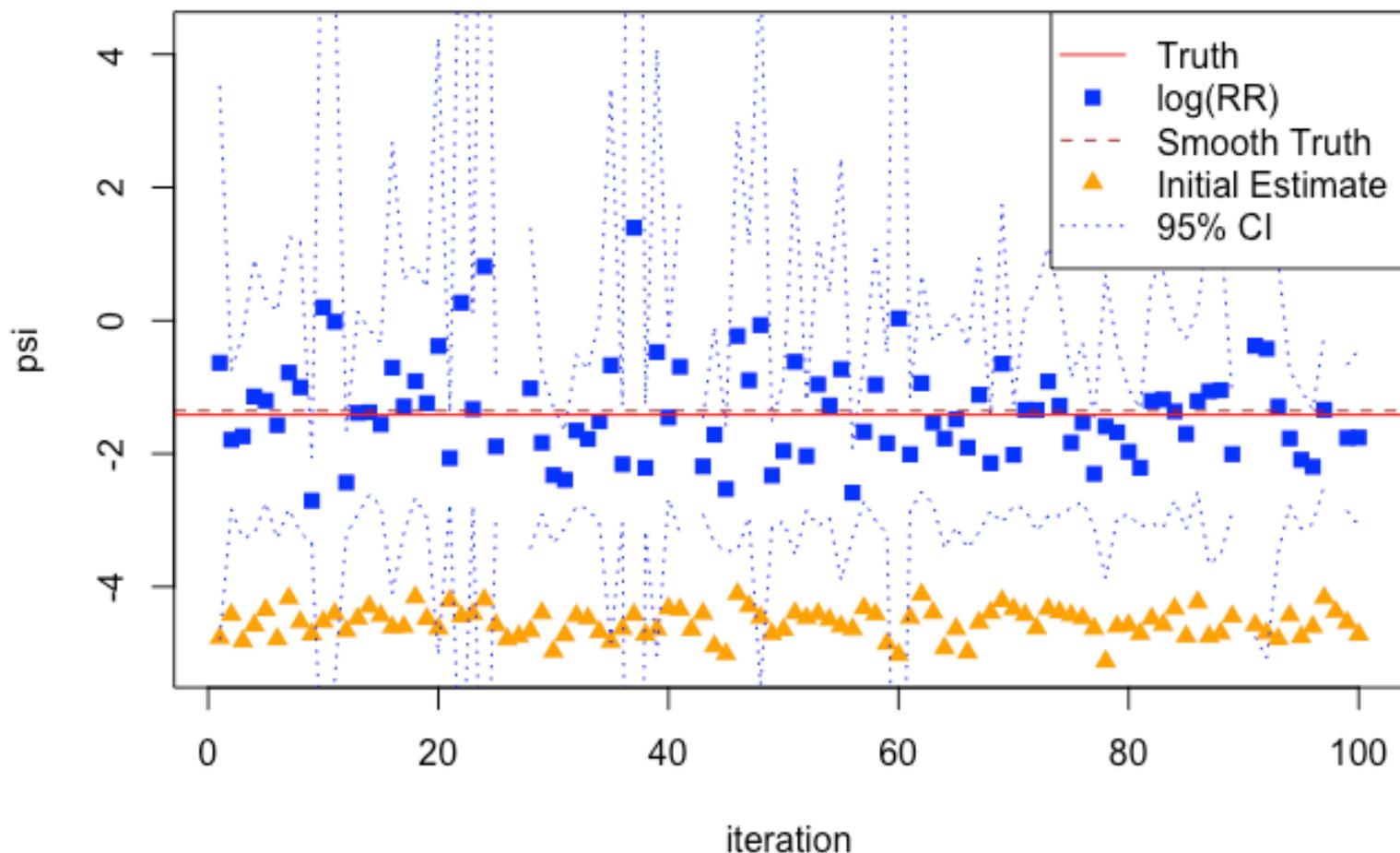
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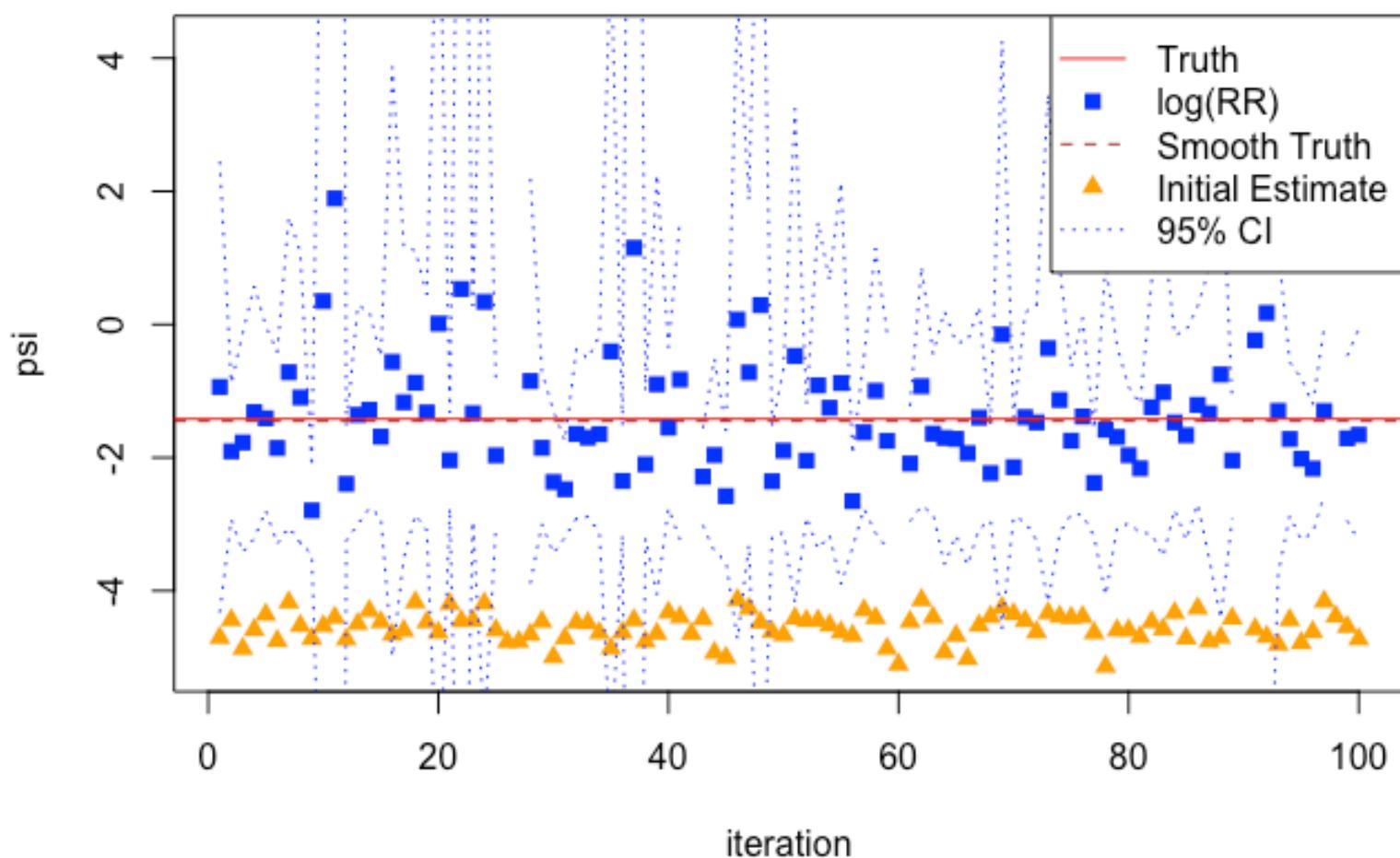
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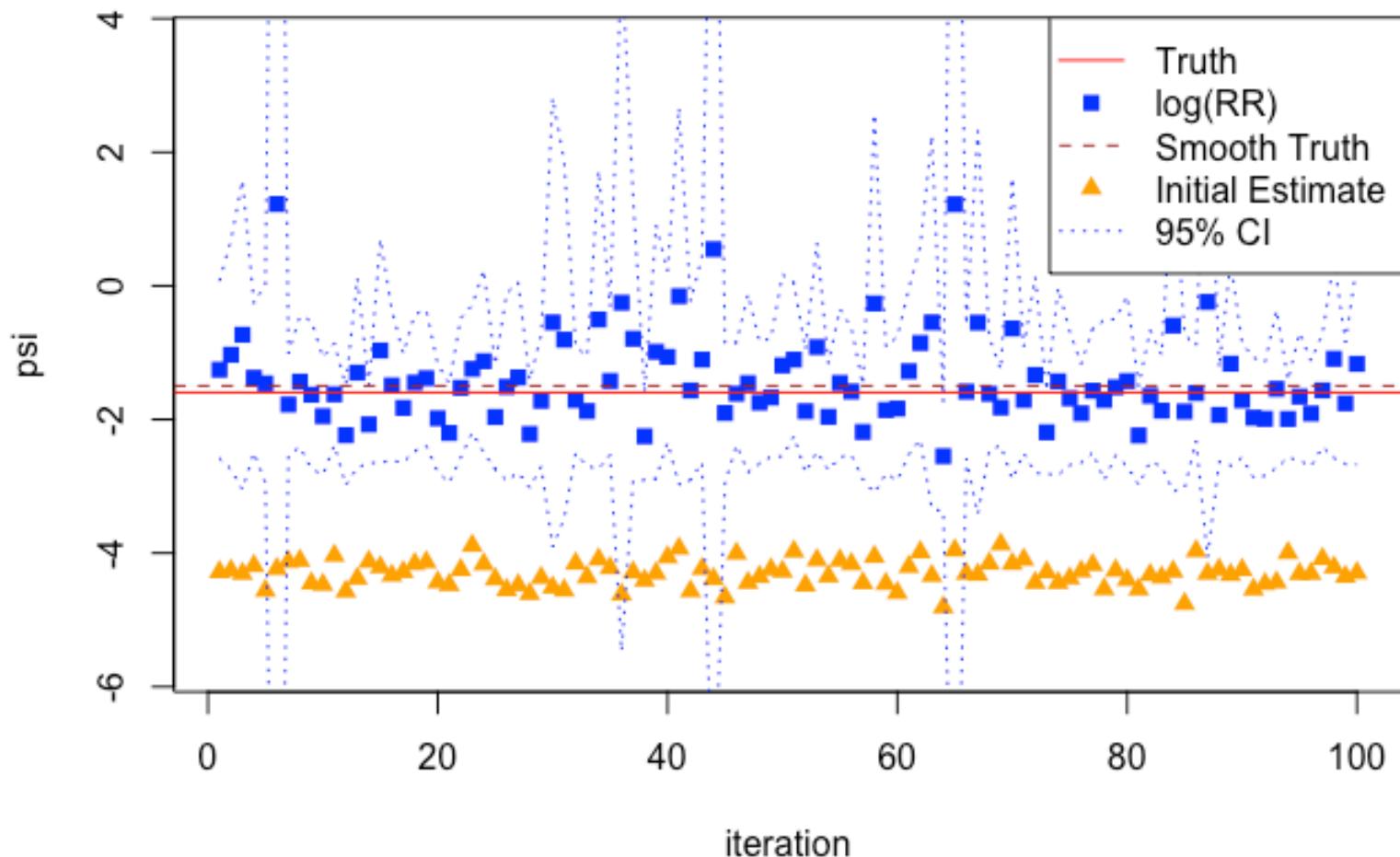
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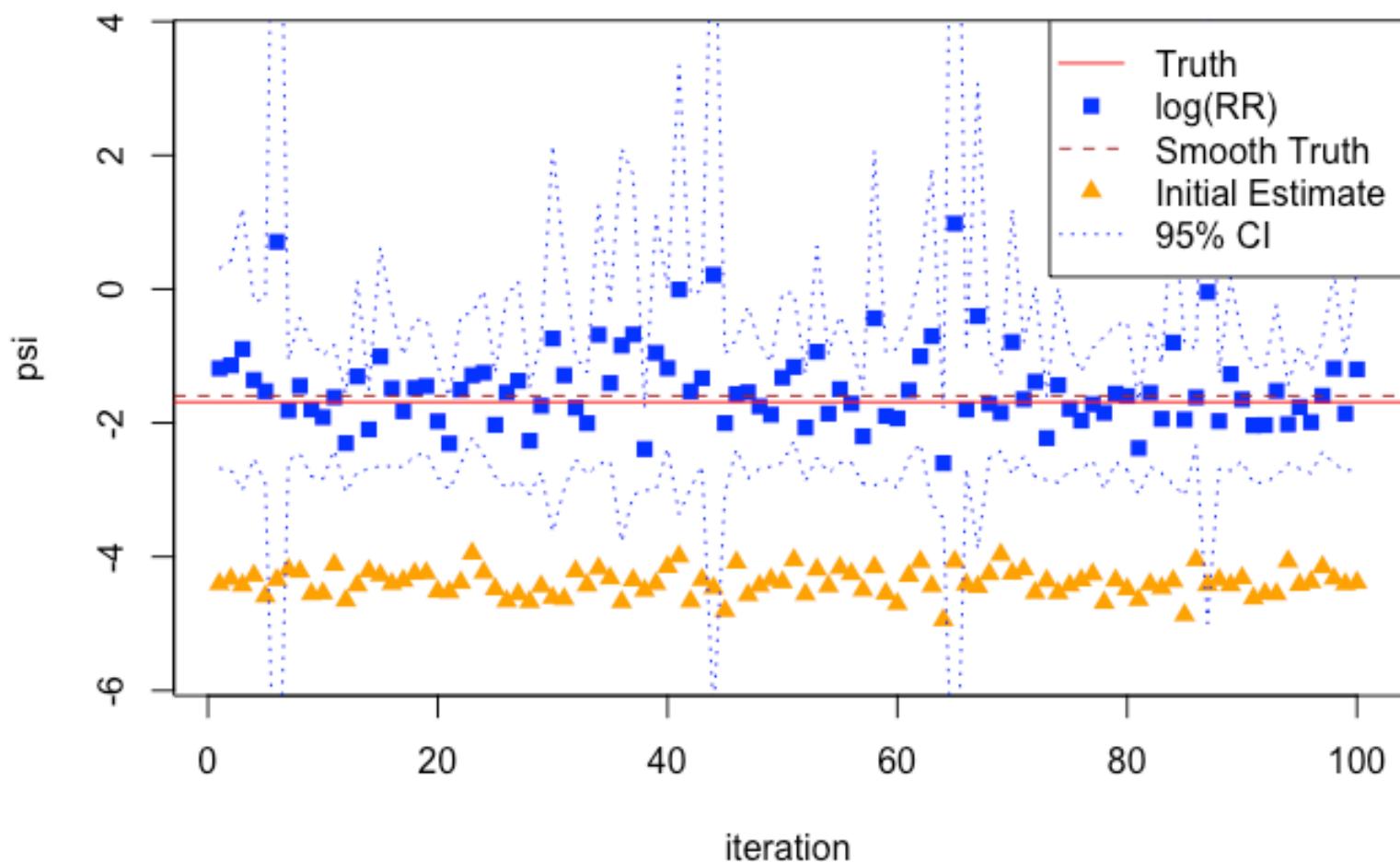
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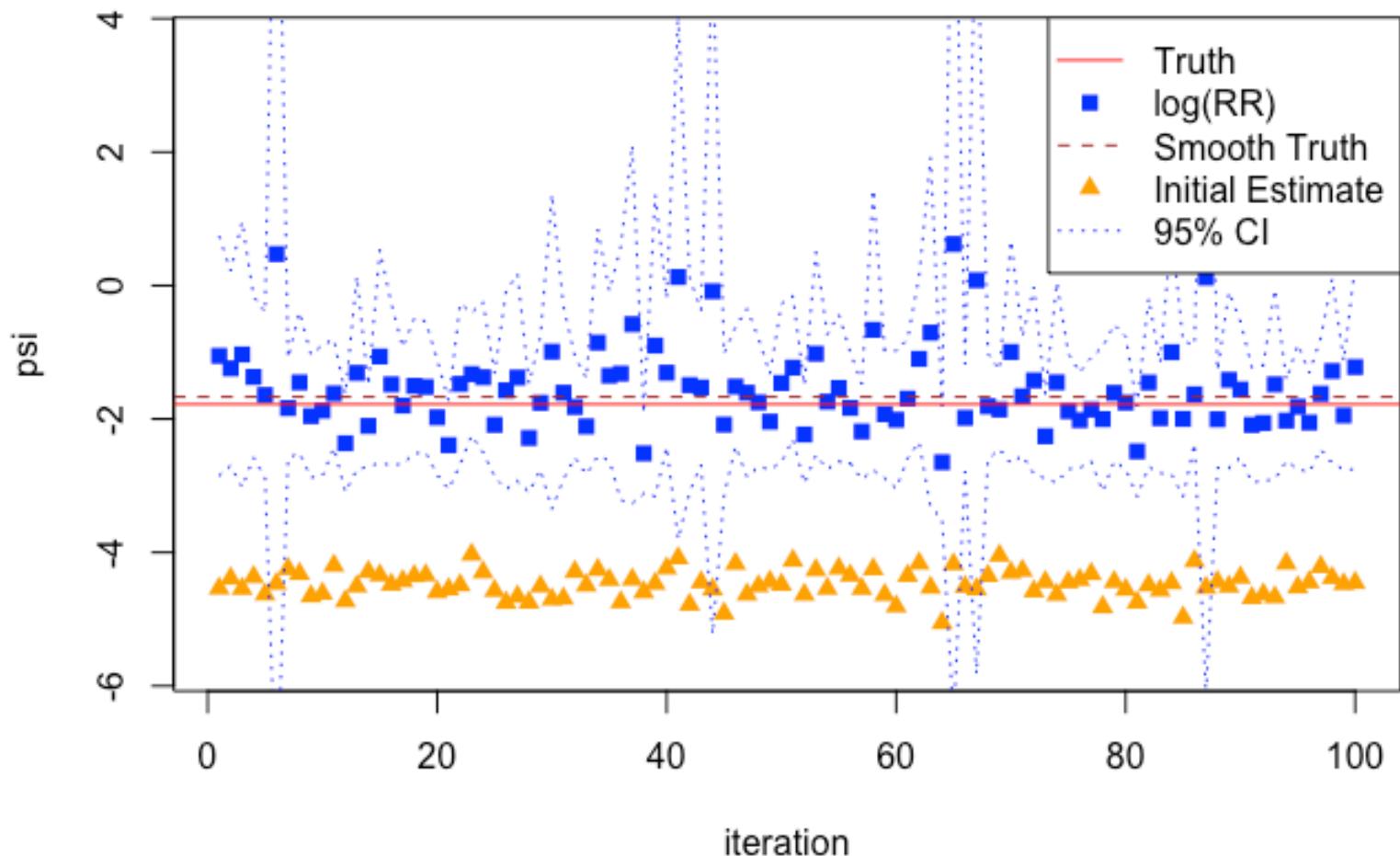
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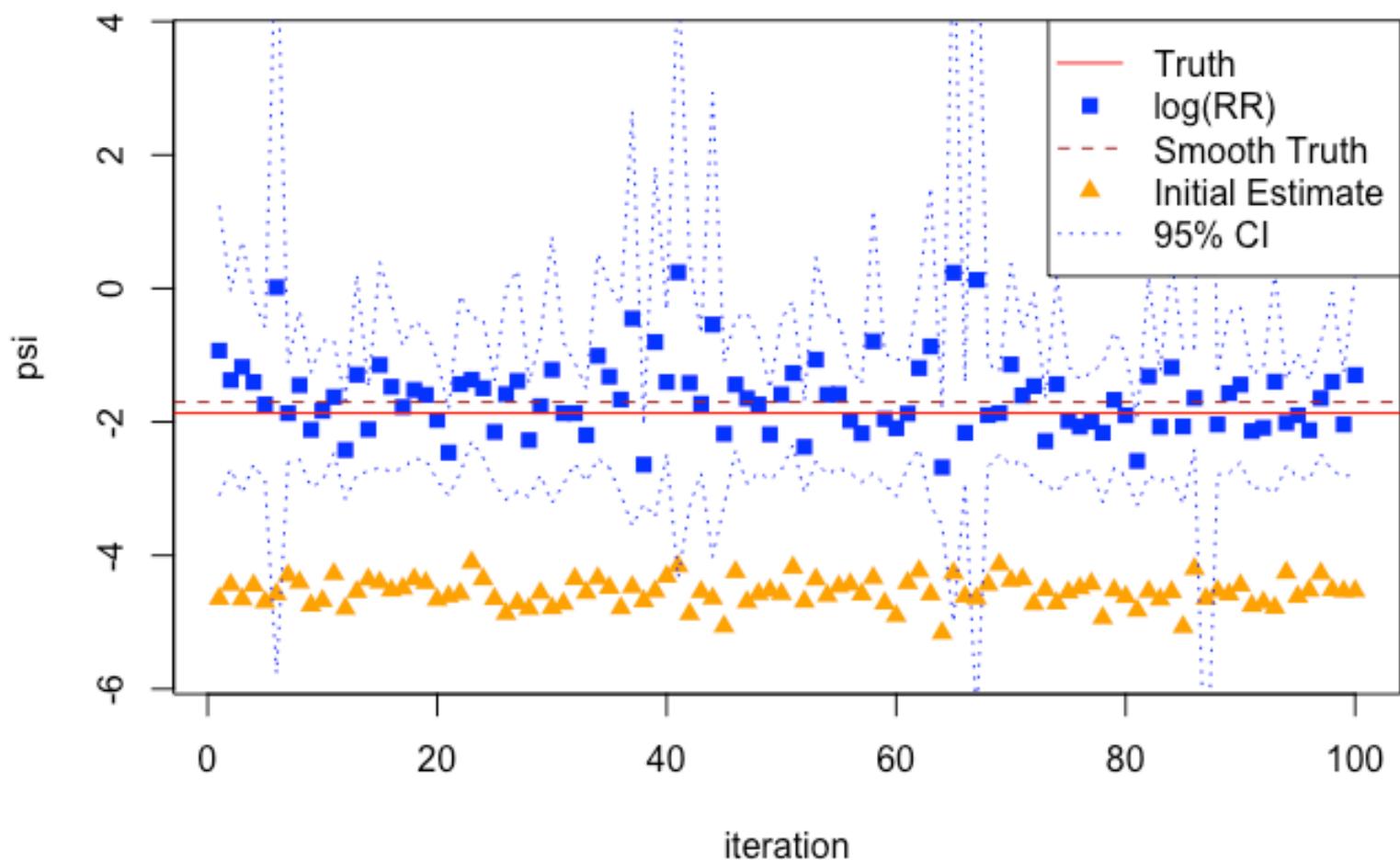
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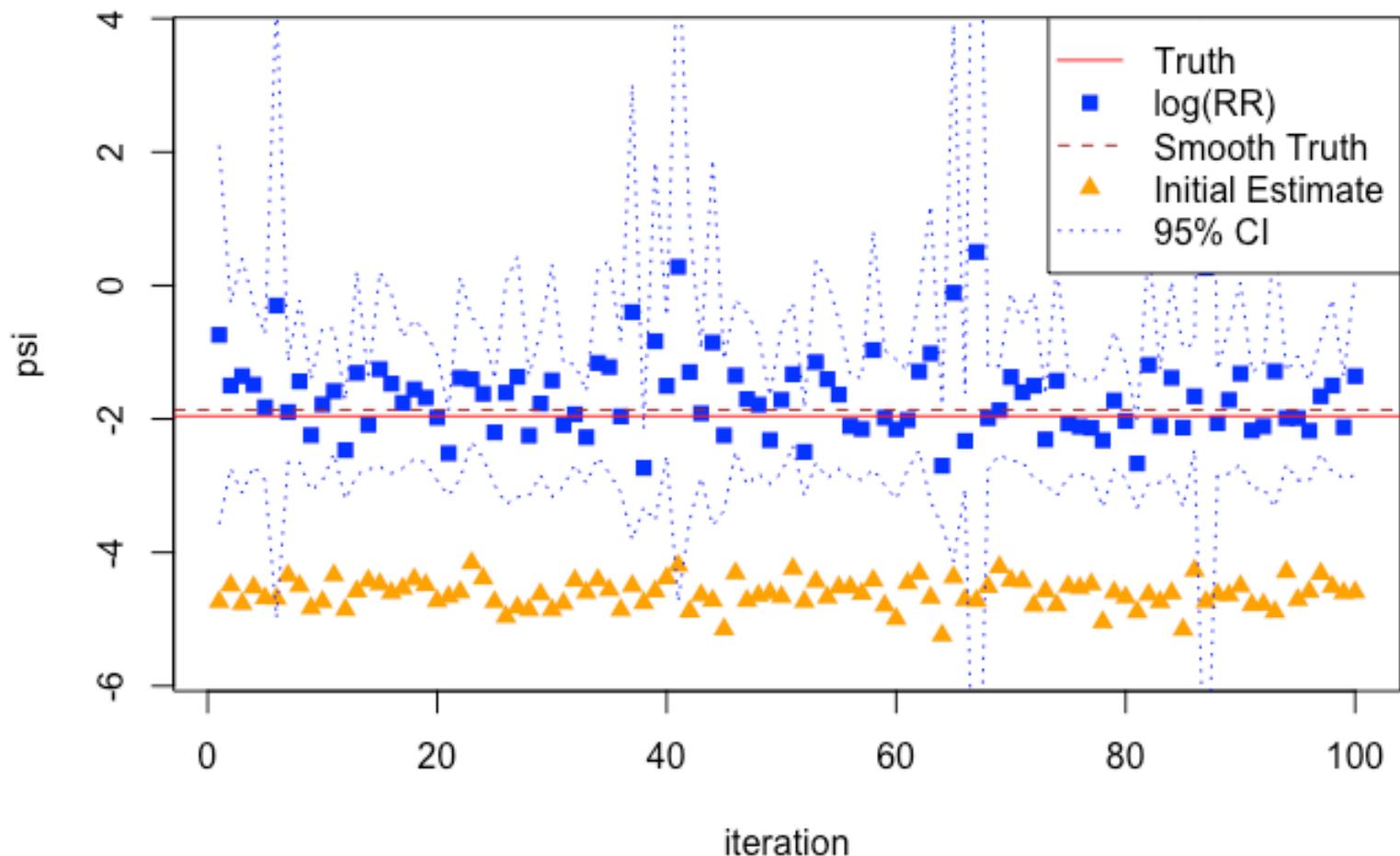
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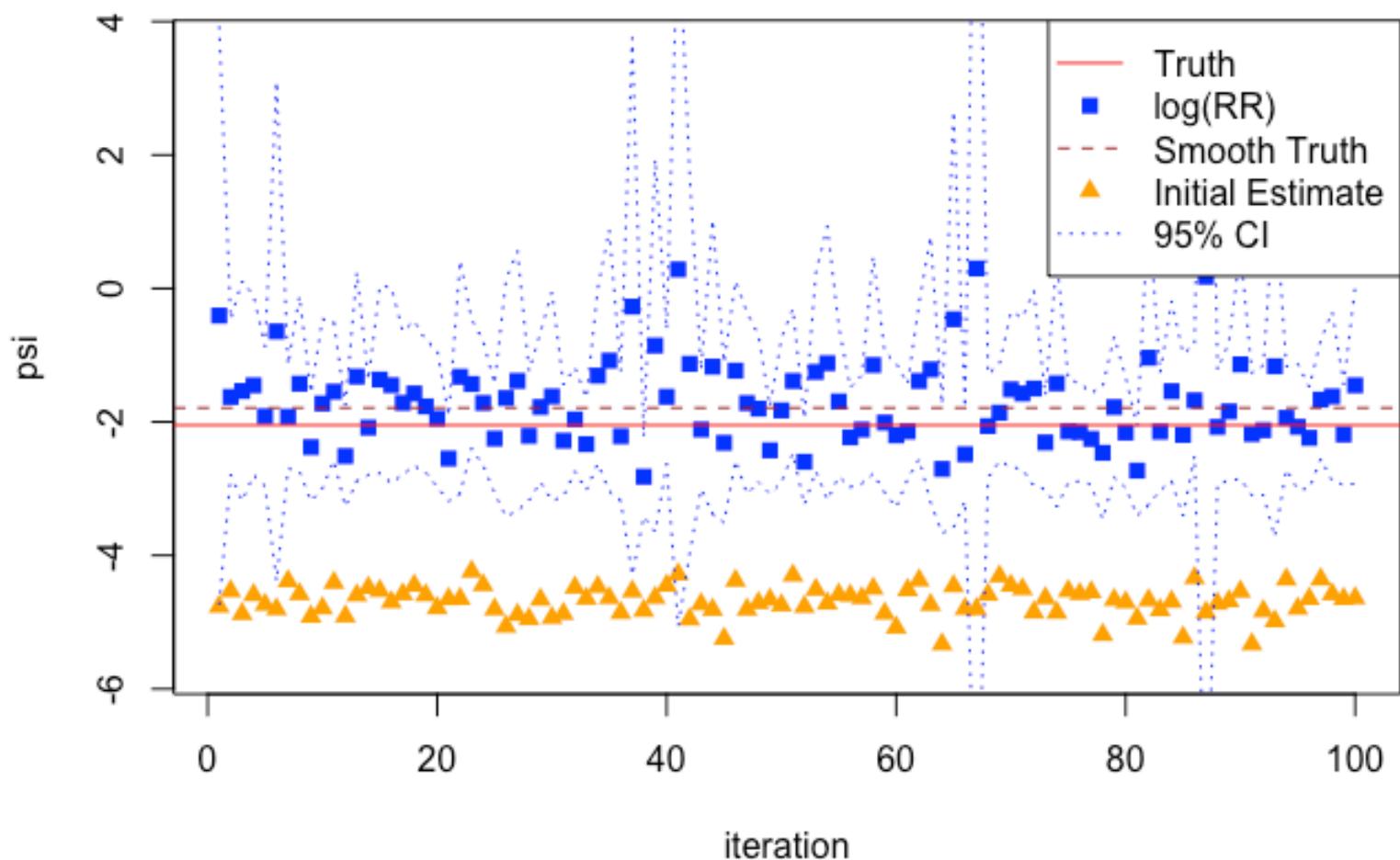
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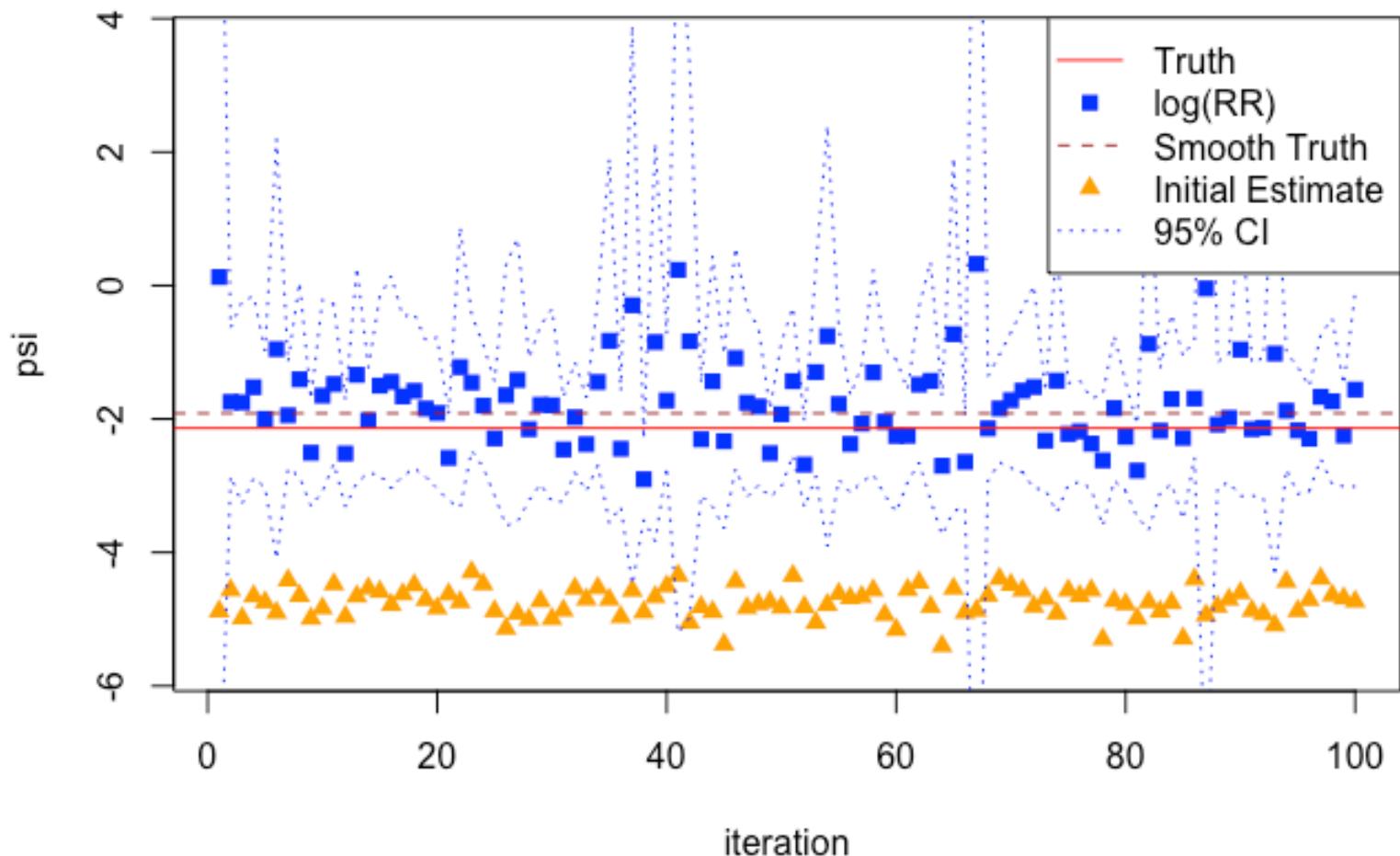
$s_1=0.4$ Alternative case for $\text{cor}(S1, W)=0.25$, crossover rate=0.5, sample rate=0.5



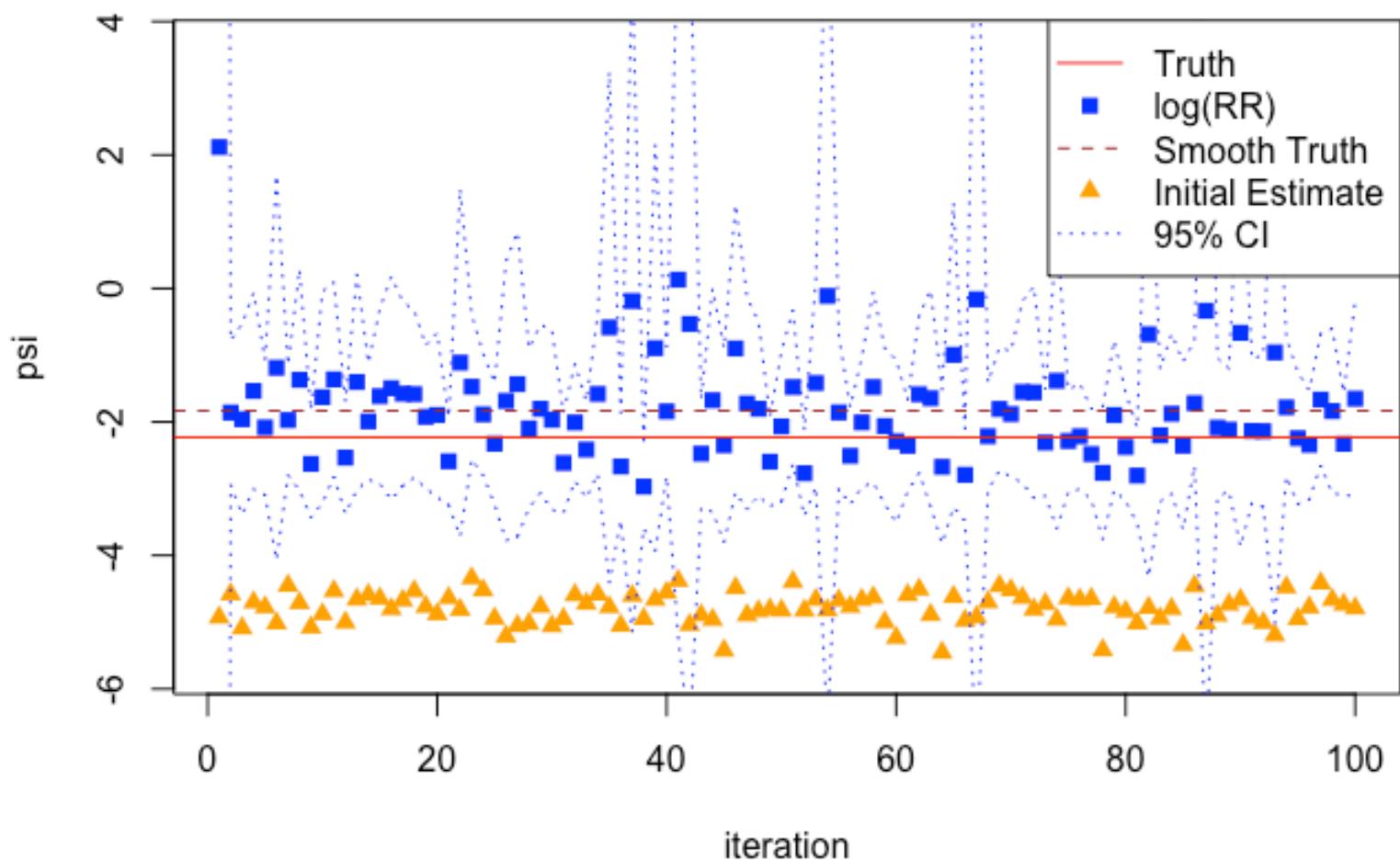
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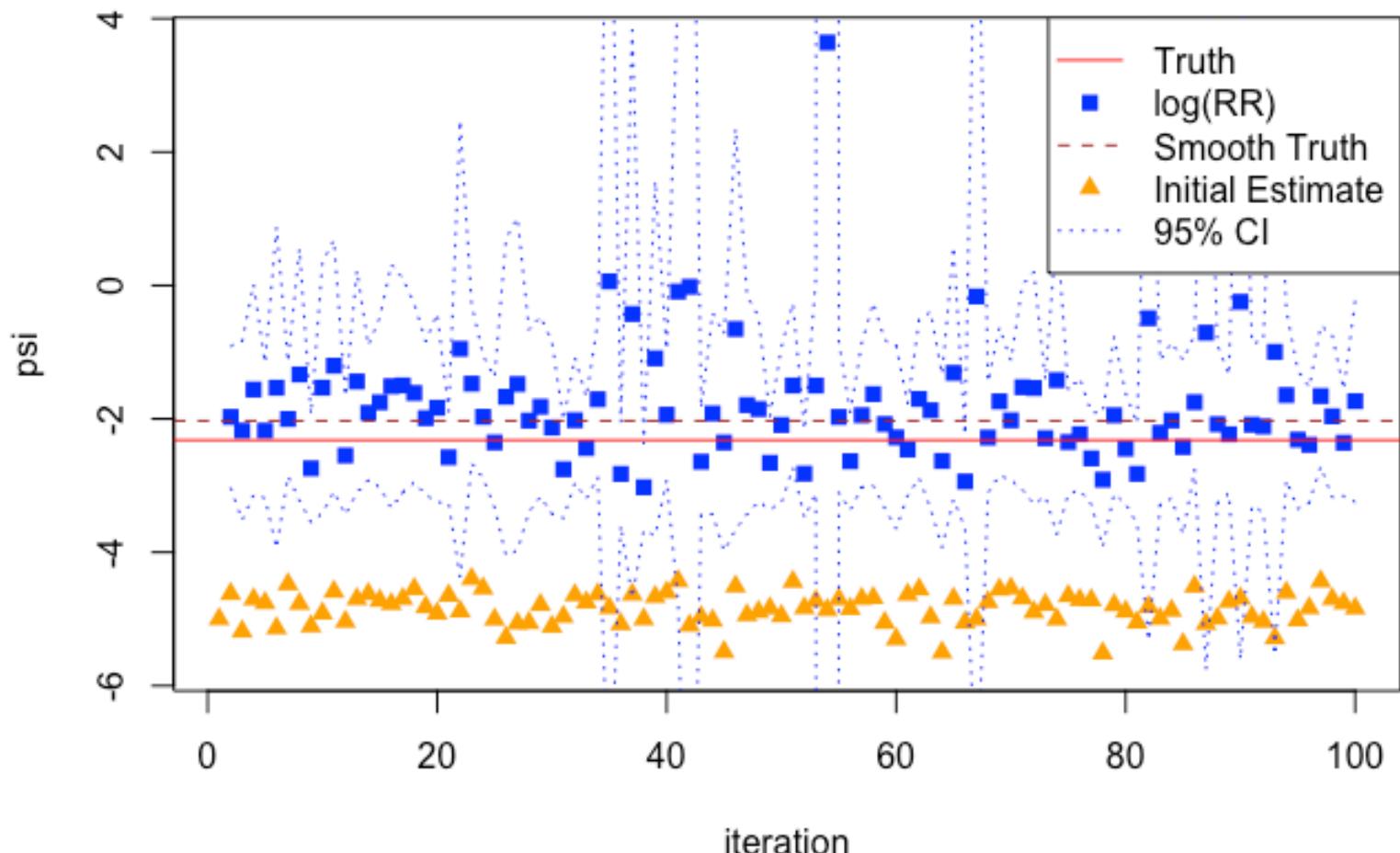
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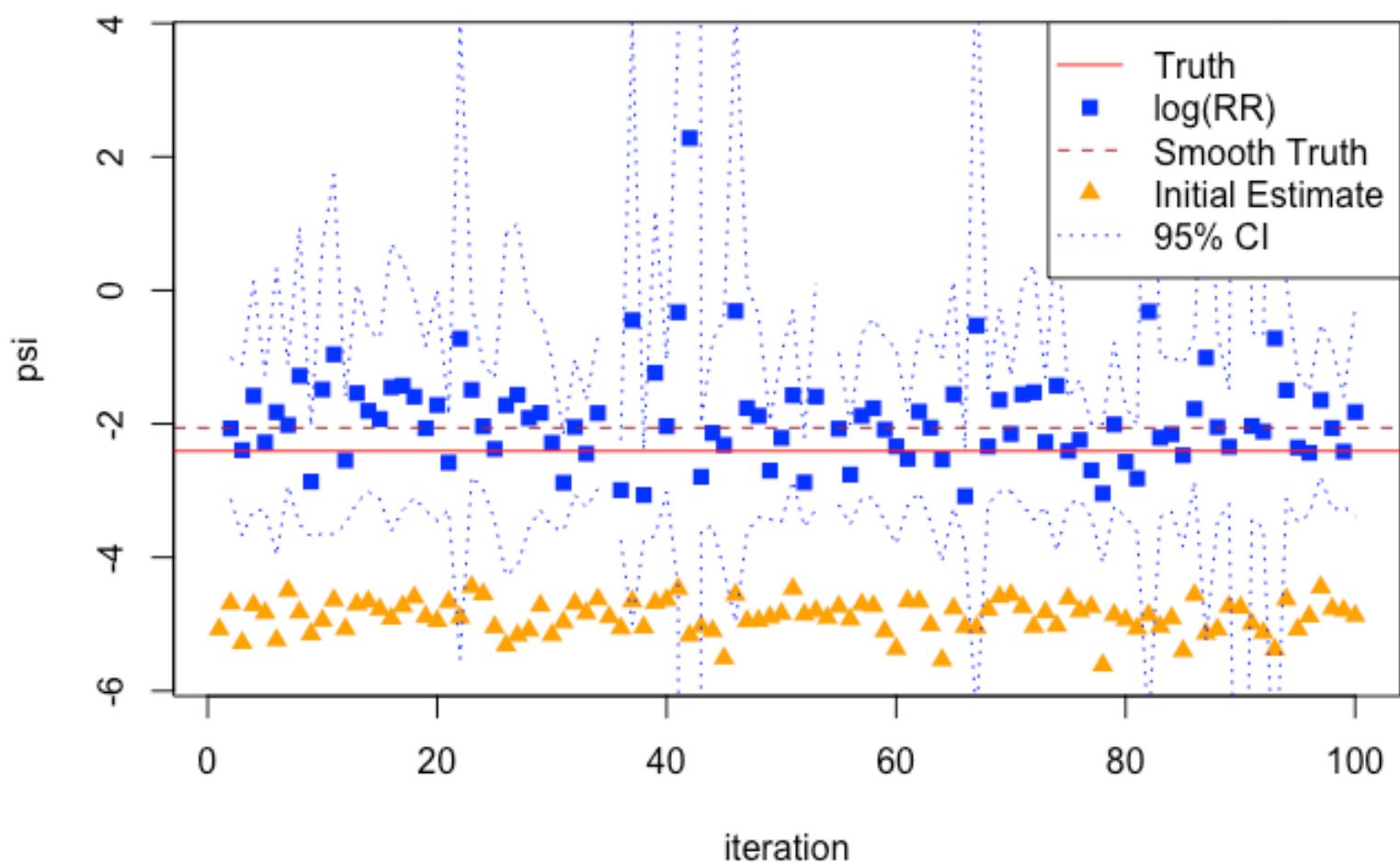
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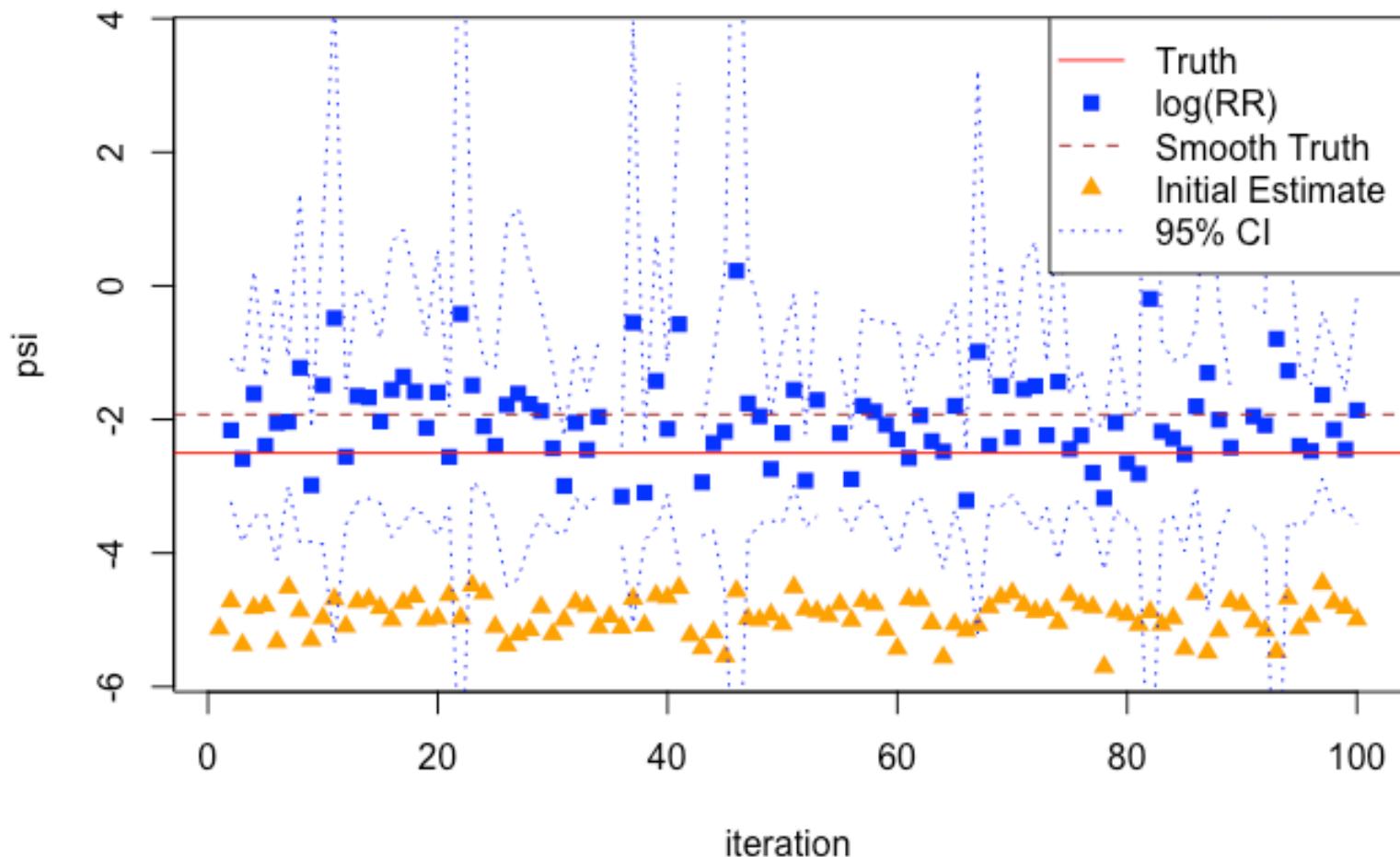
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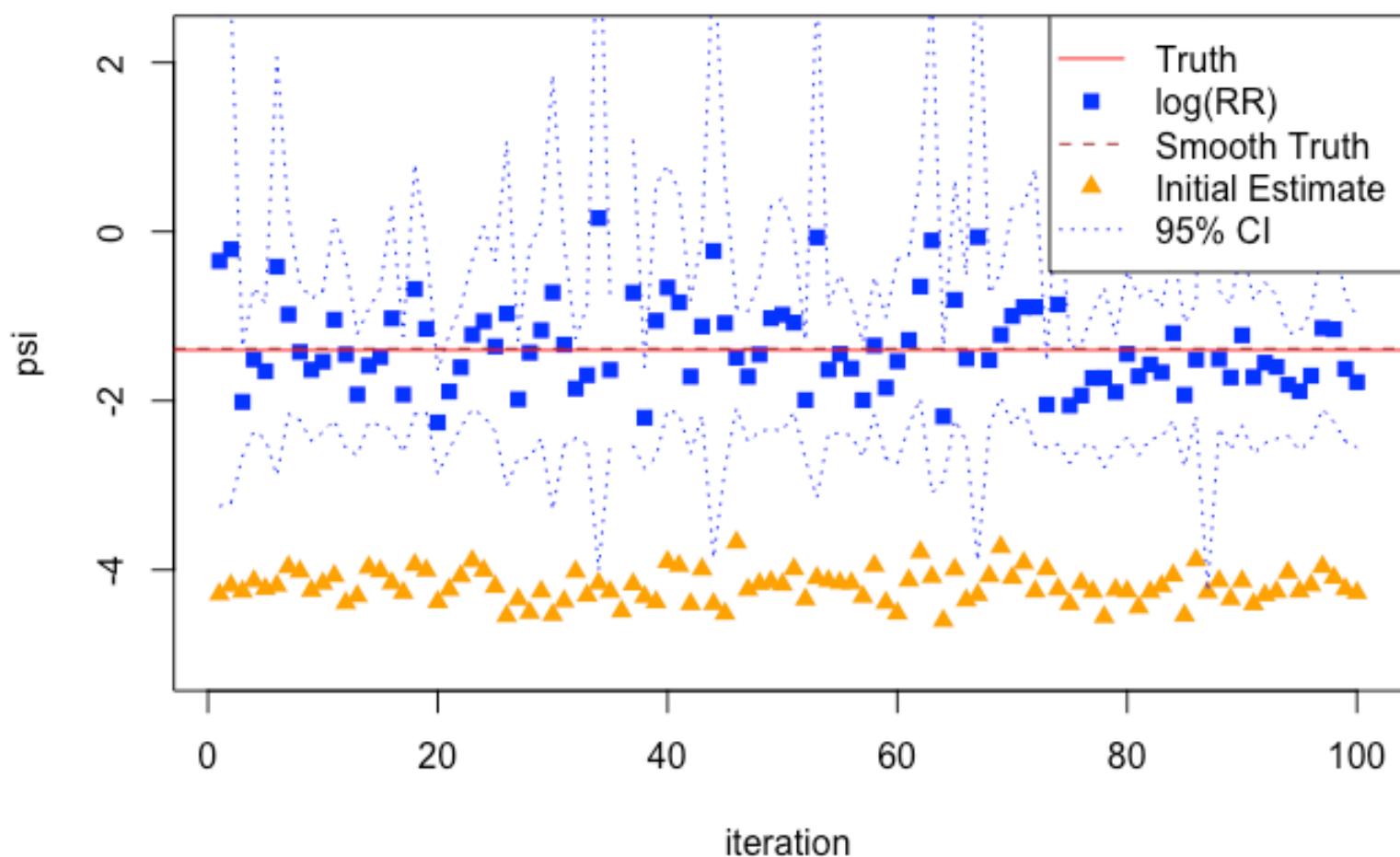
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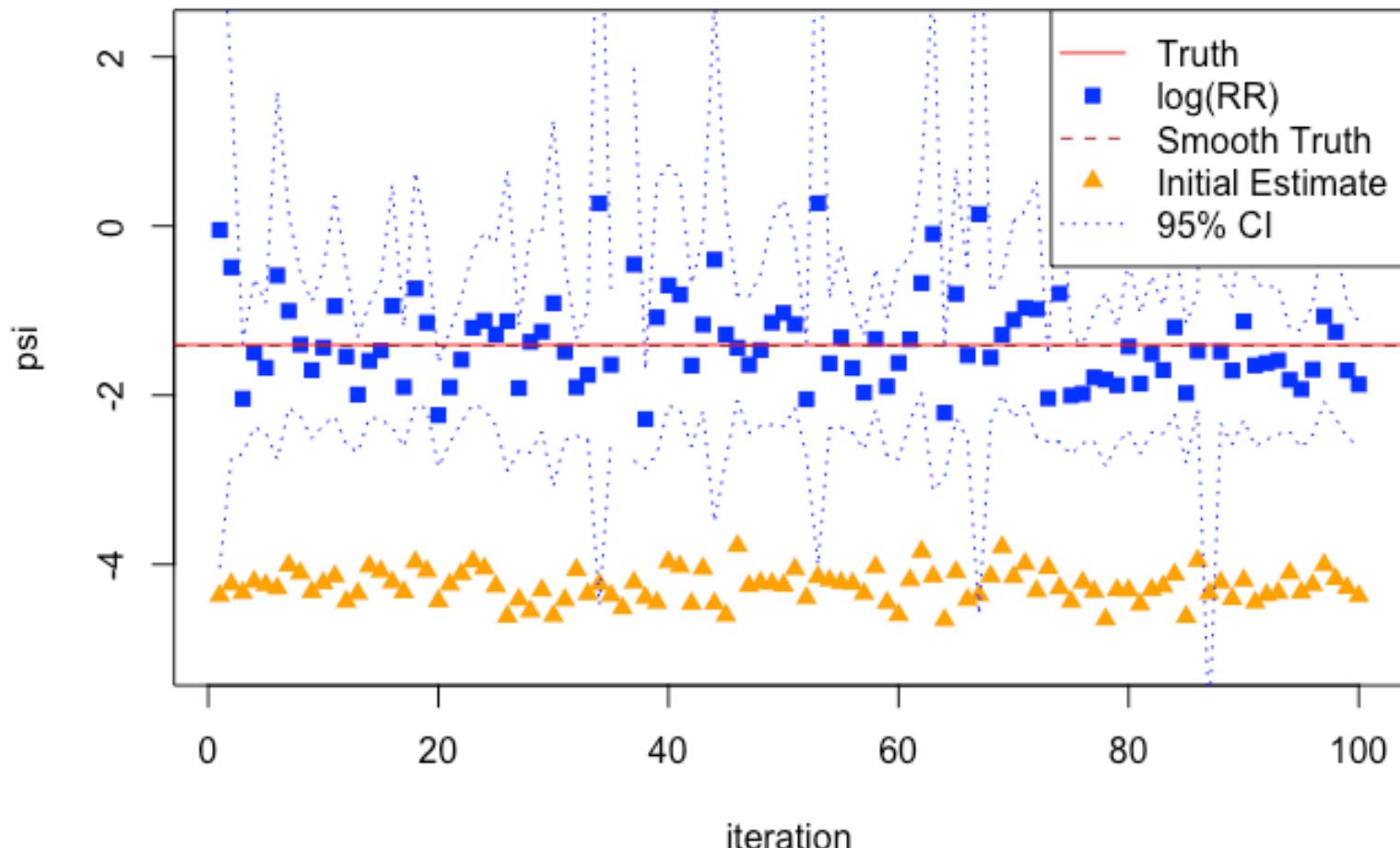
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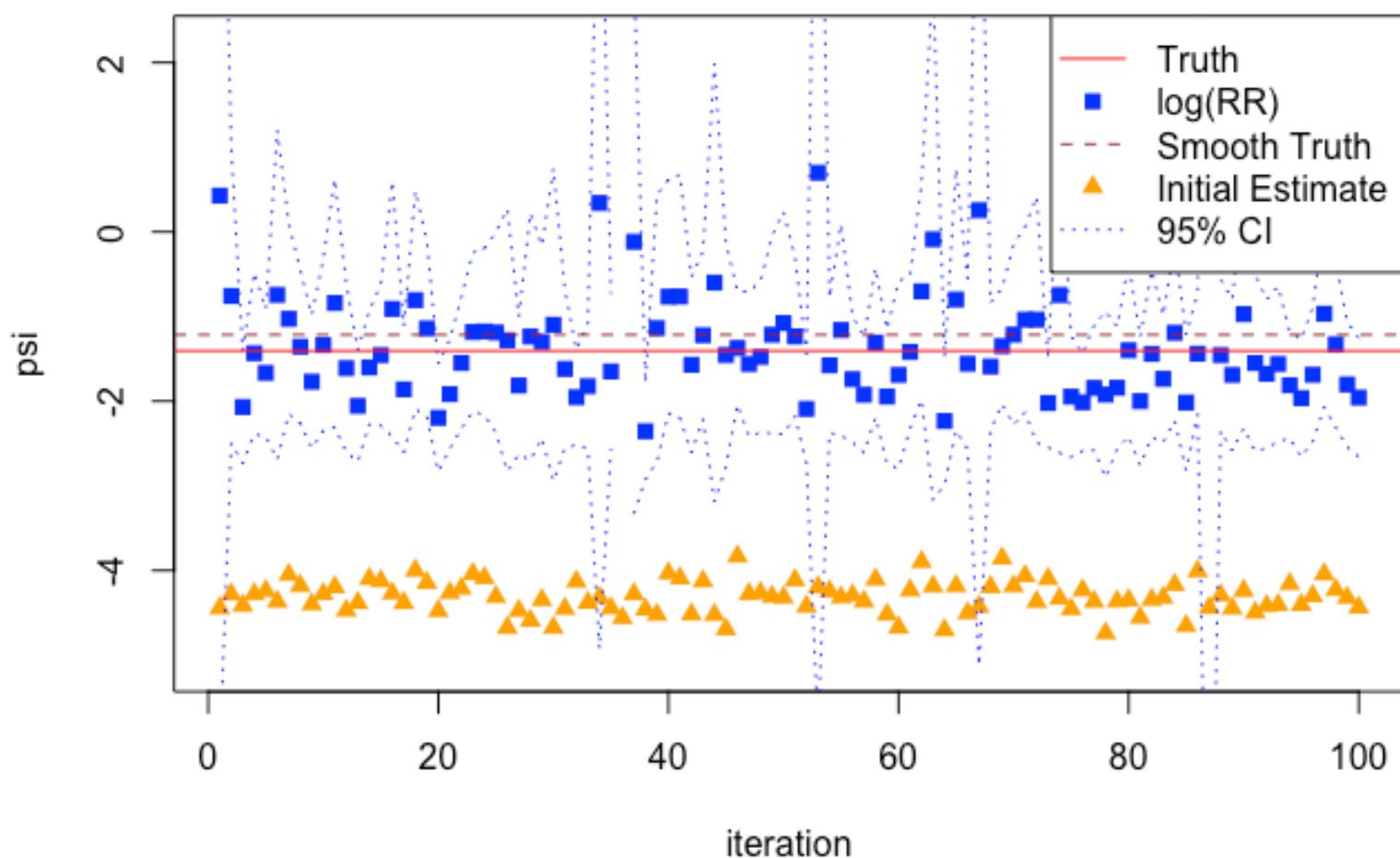
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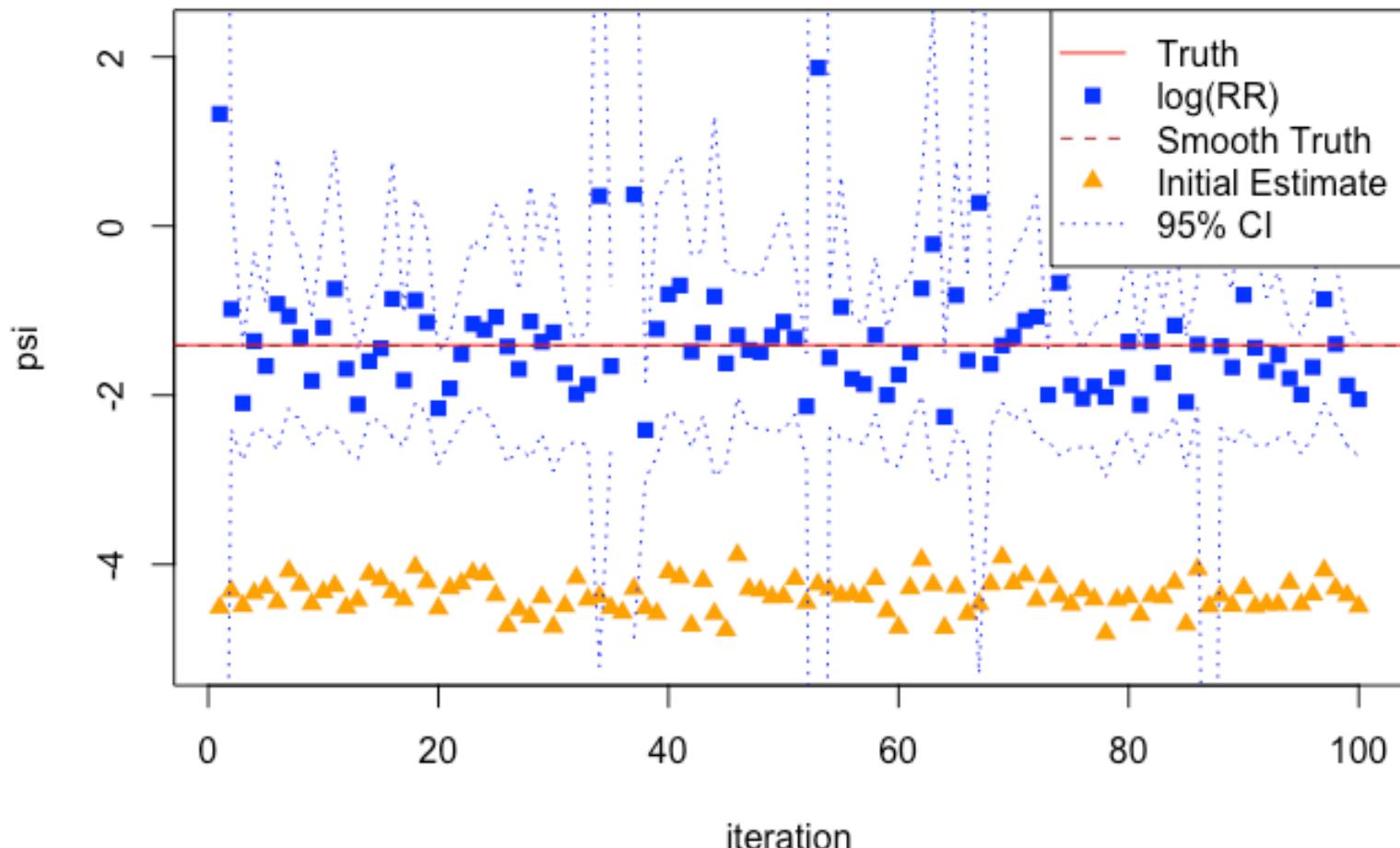
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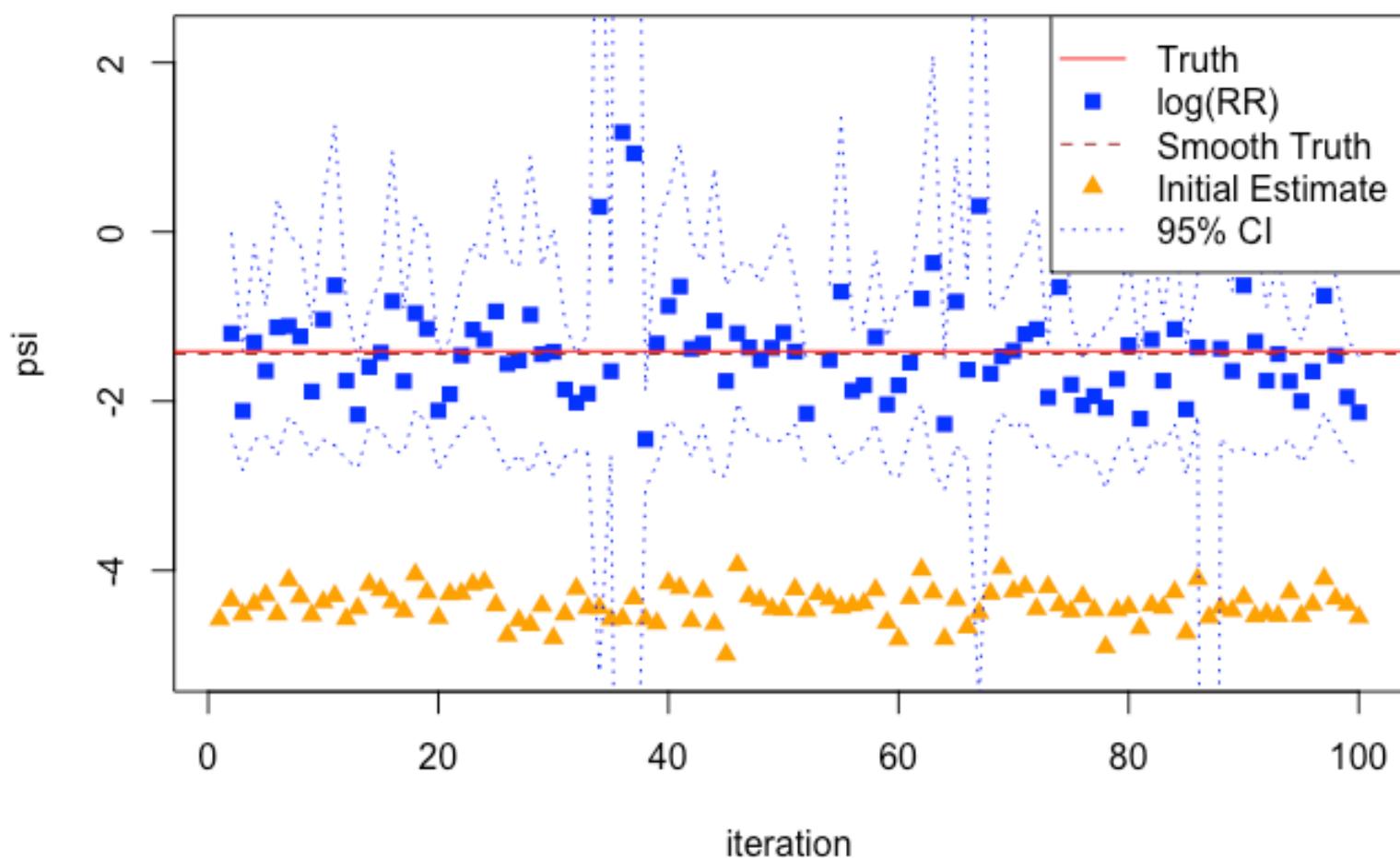
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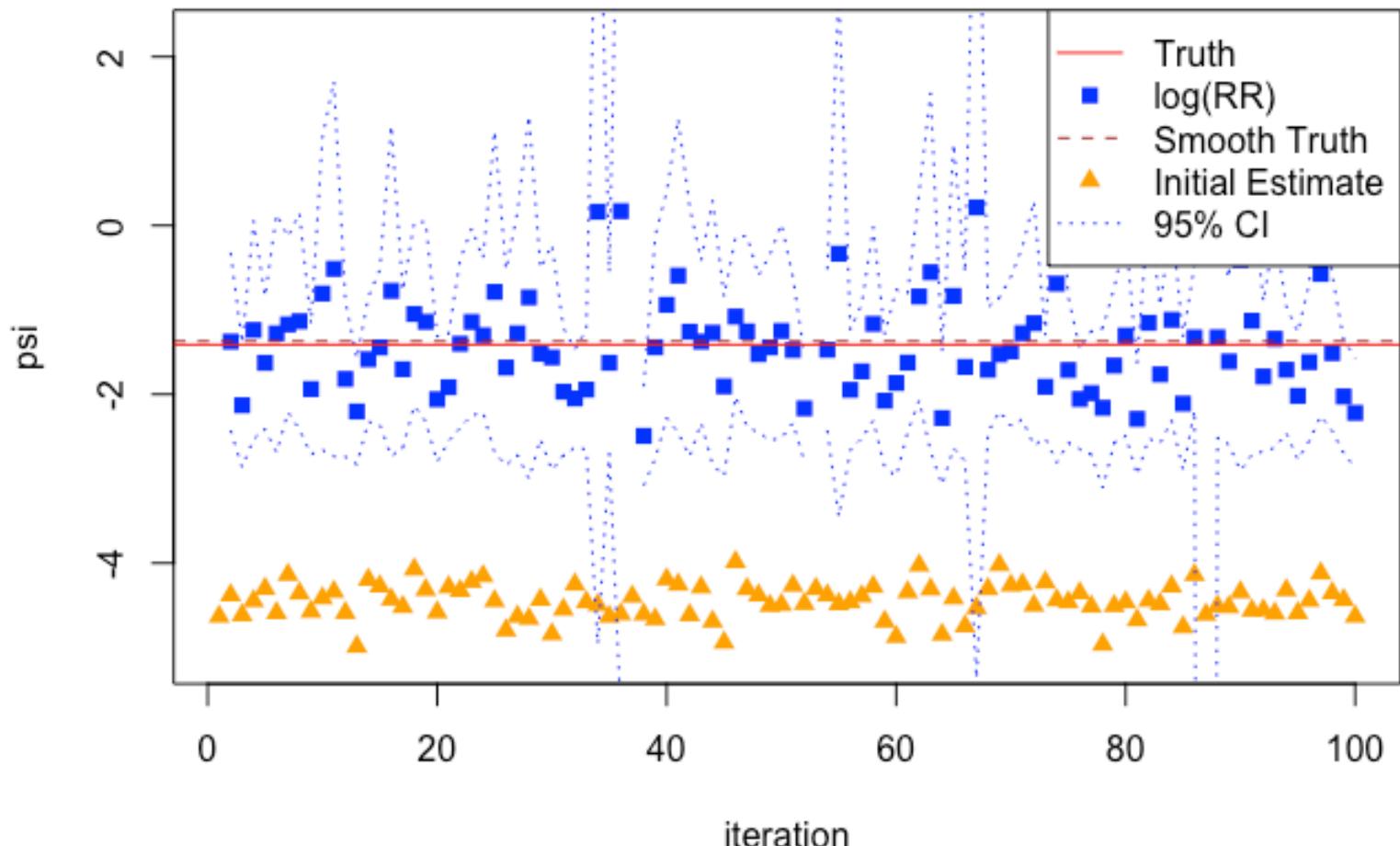
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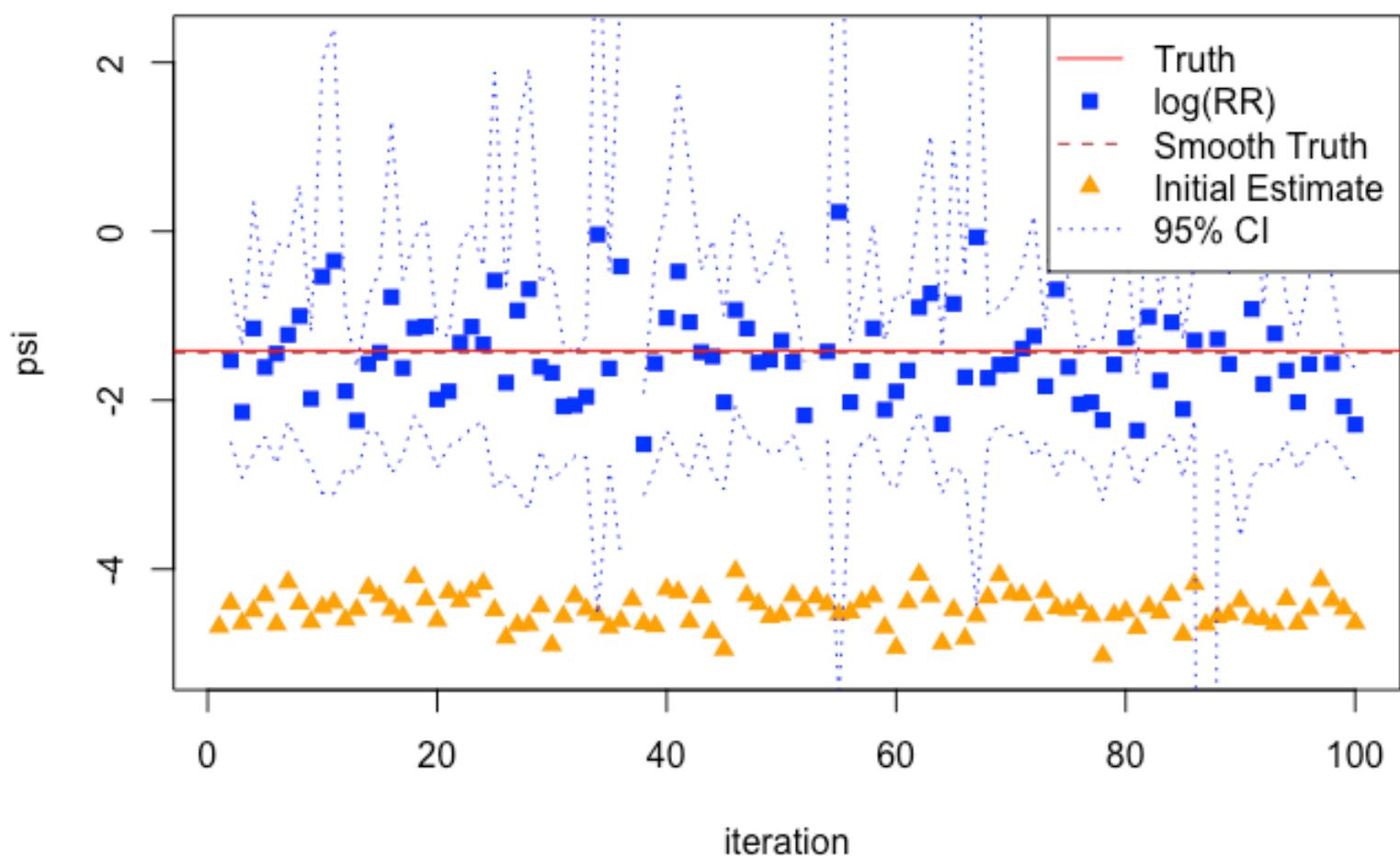
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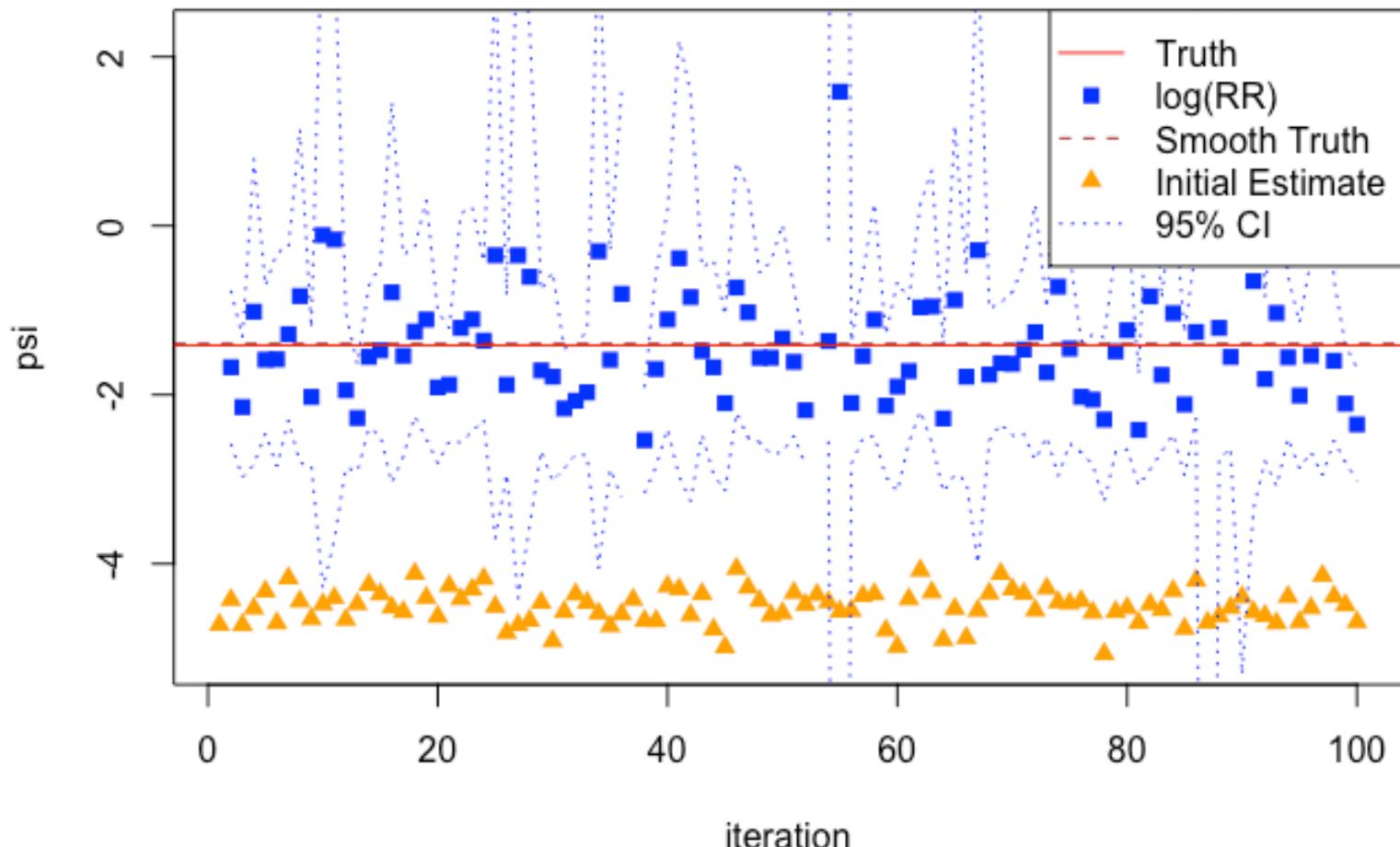
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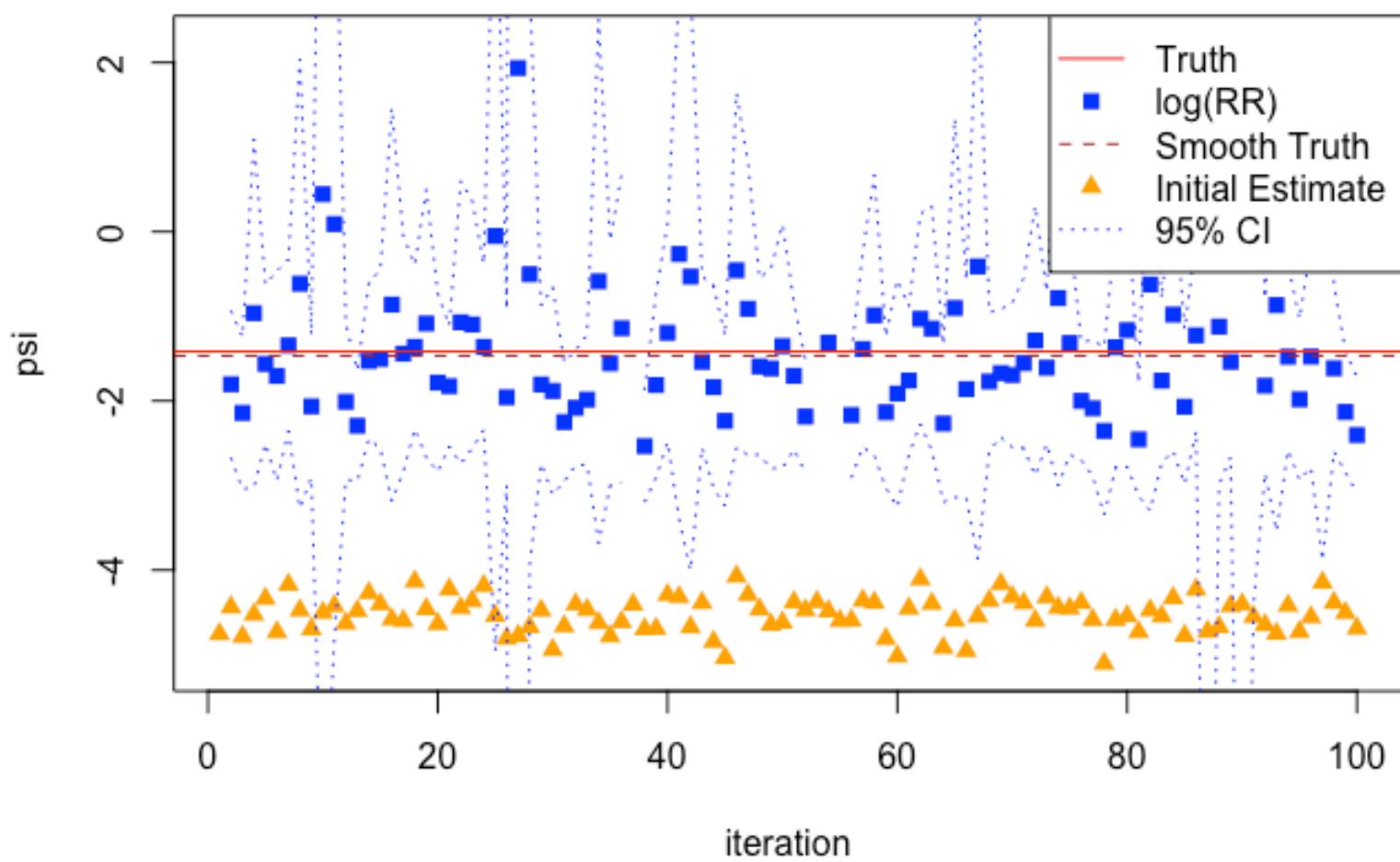
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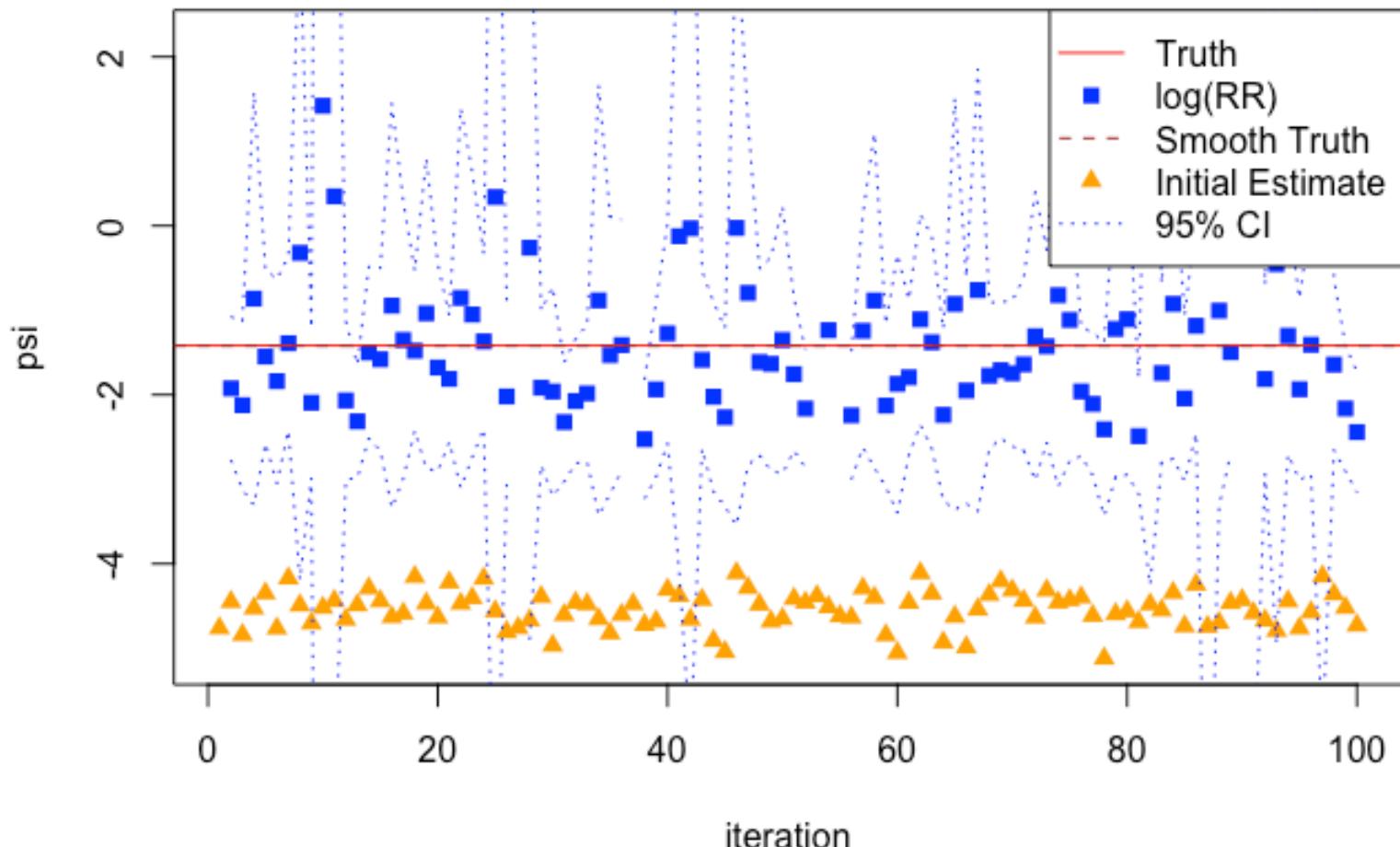
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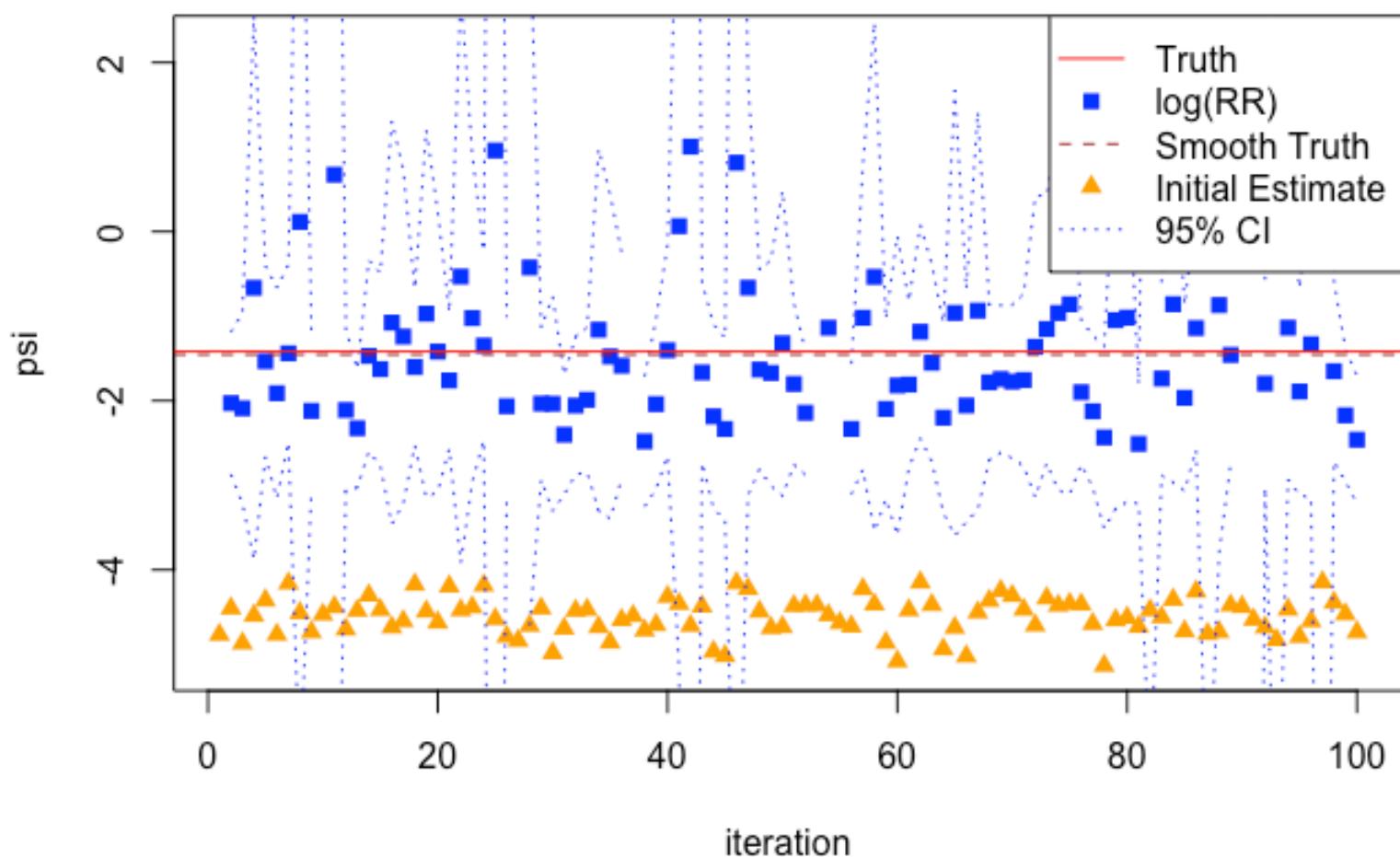
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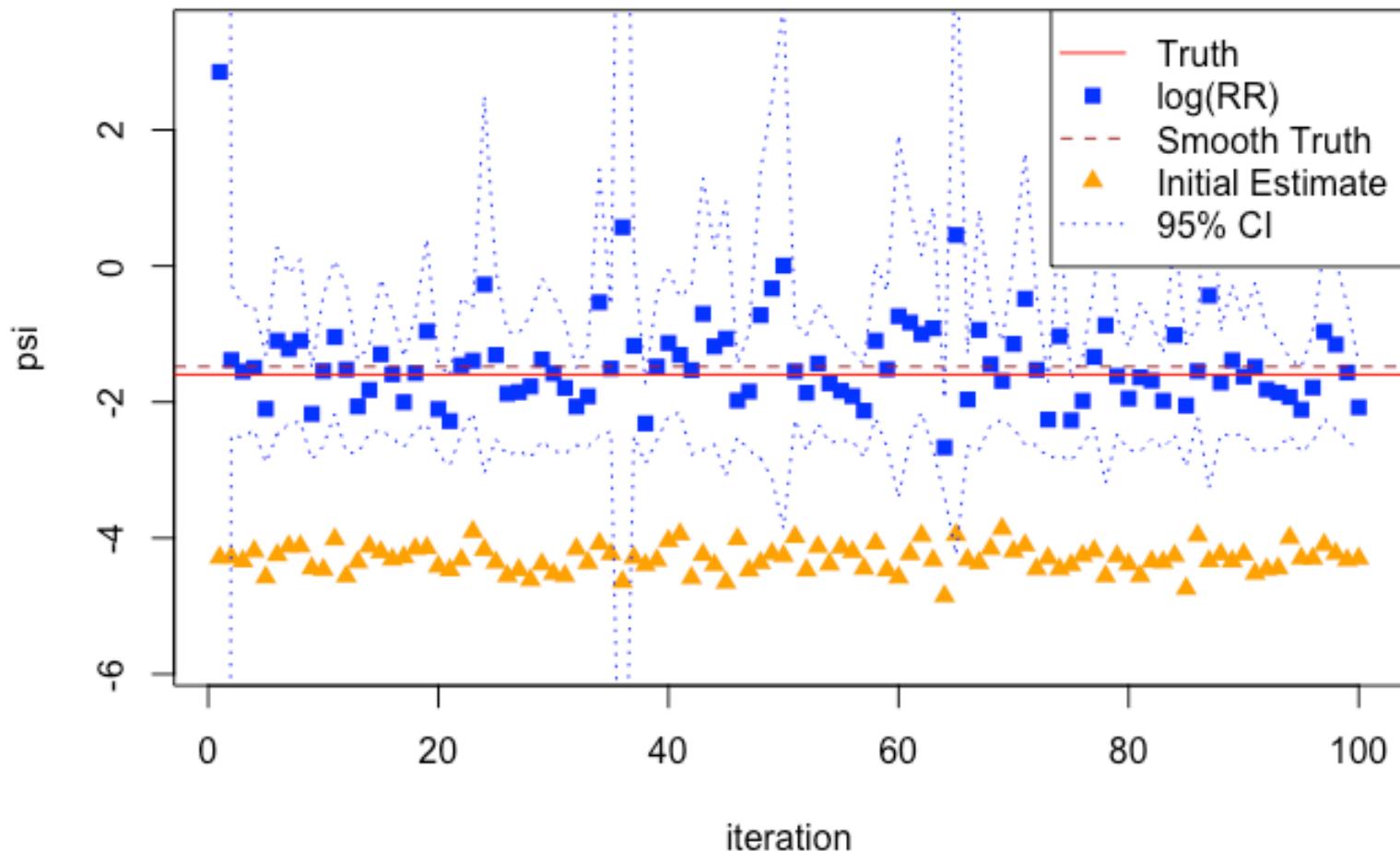
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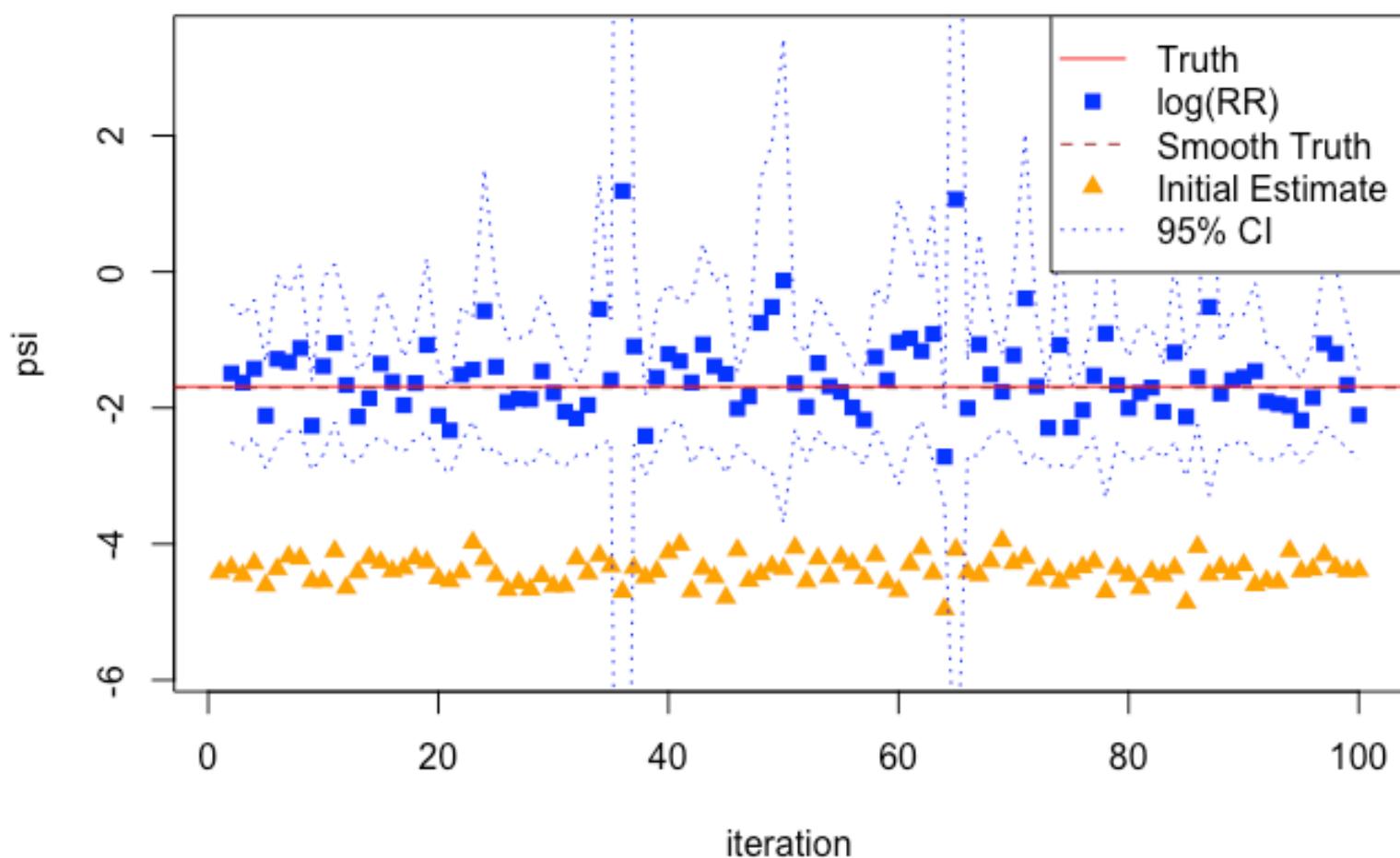
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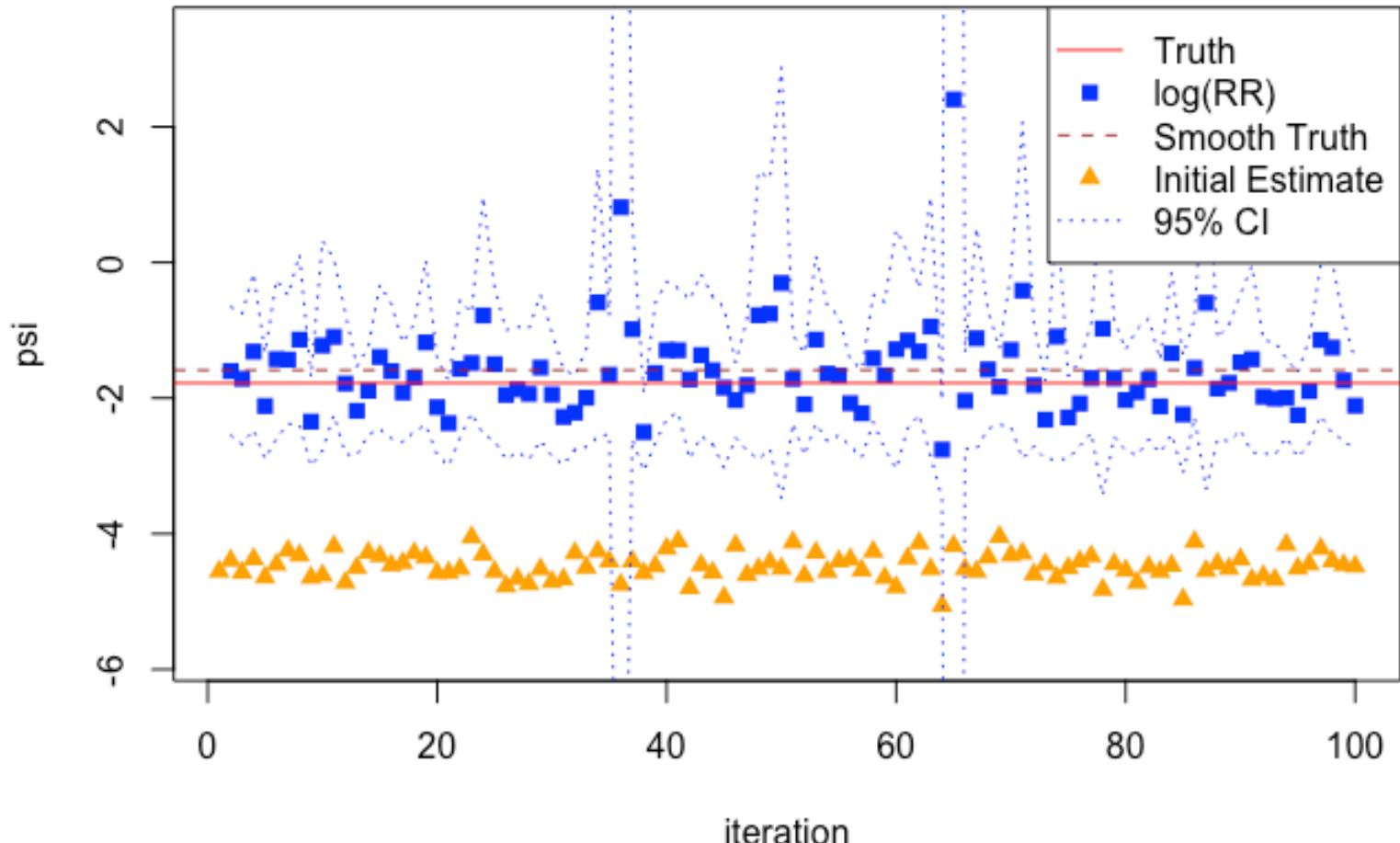
s1=0 Alternative case for $\text{cor}(S1, W)=0.25$, crossover rate=0.5, sample rate=1



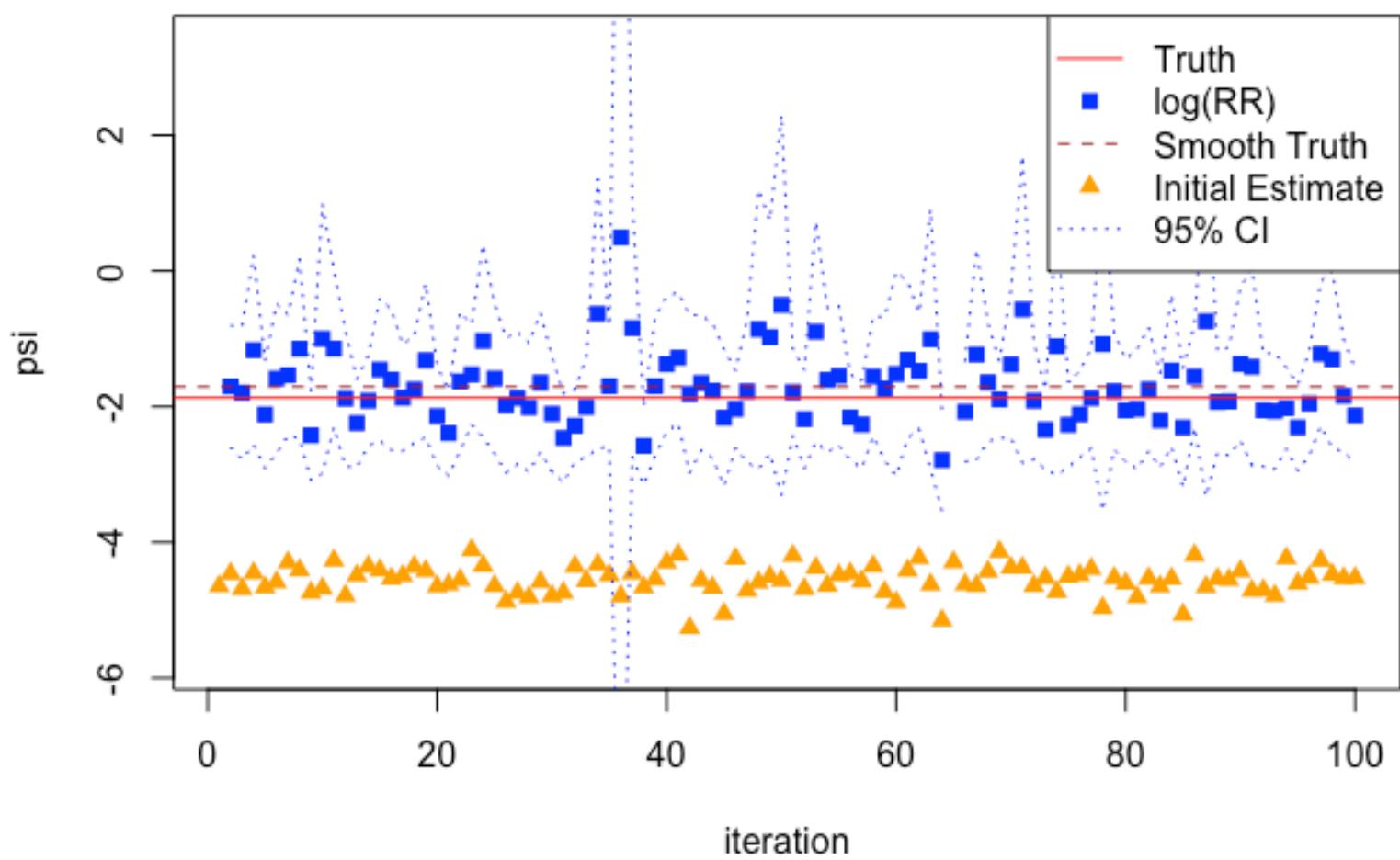
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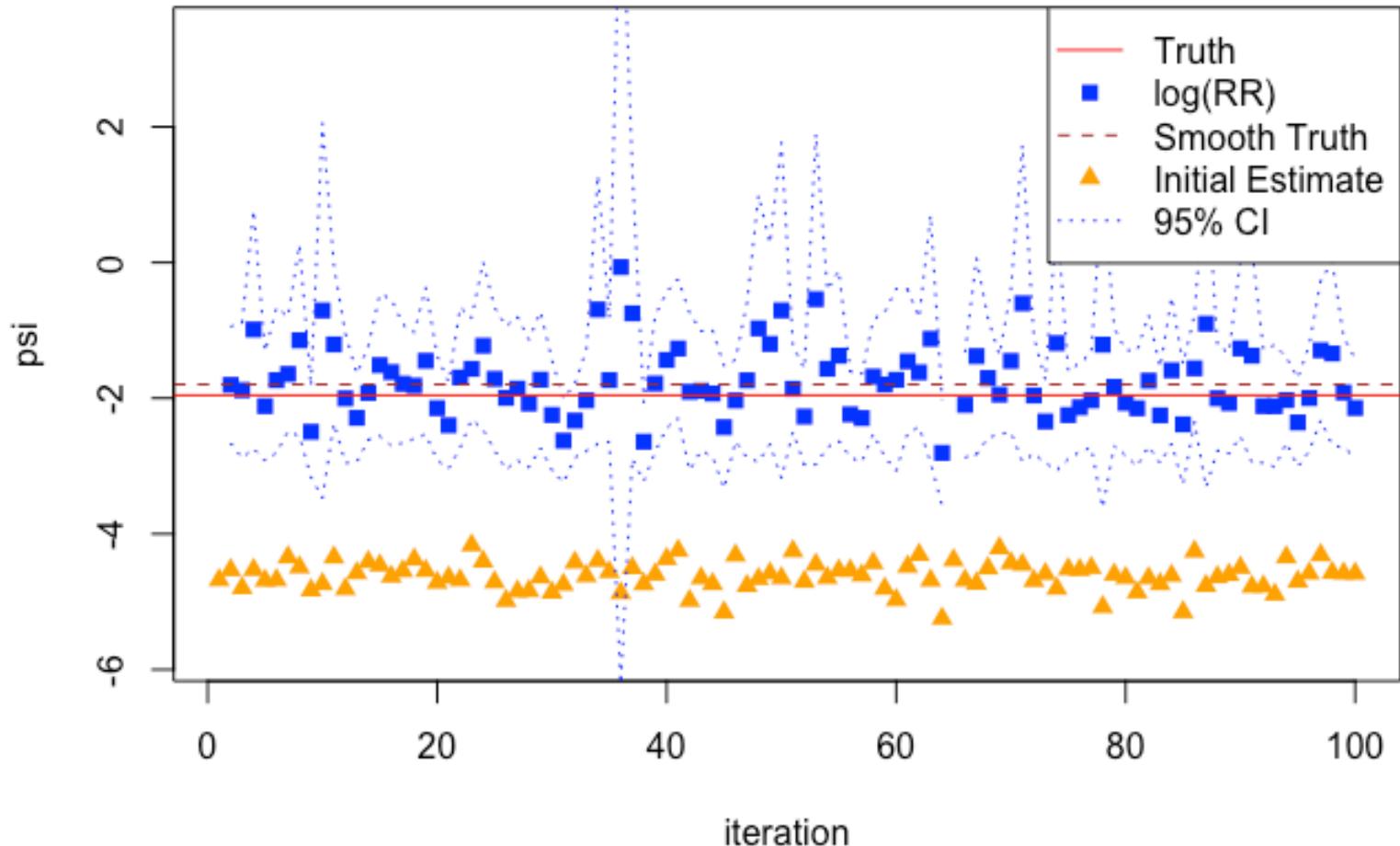
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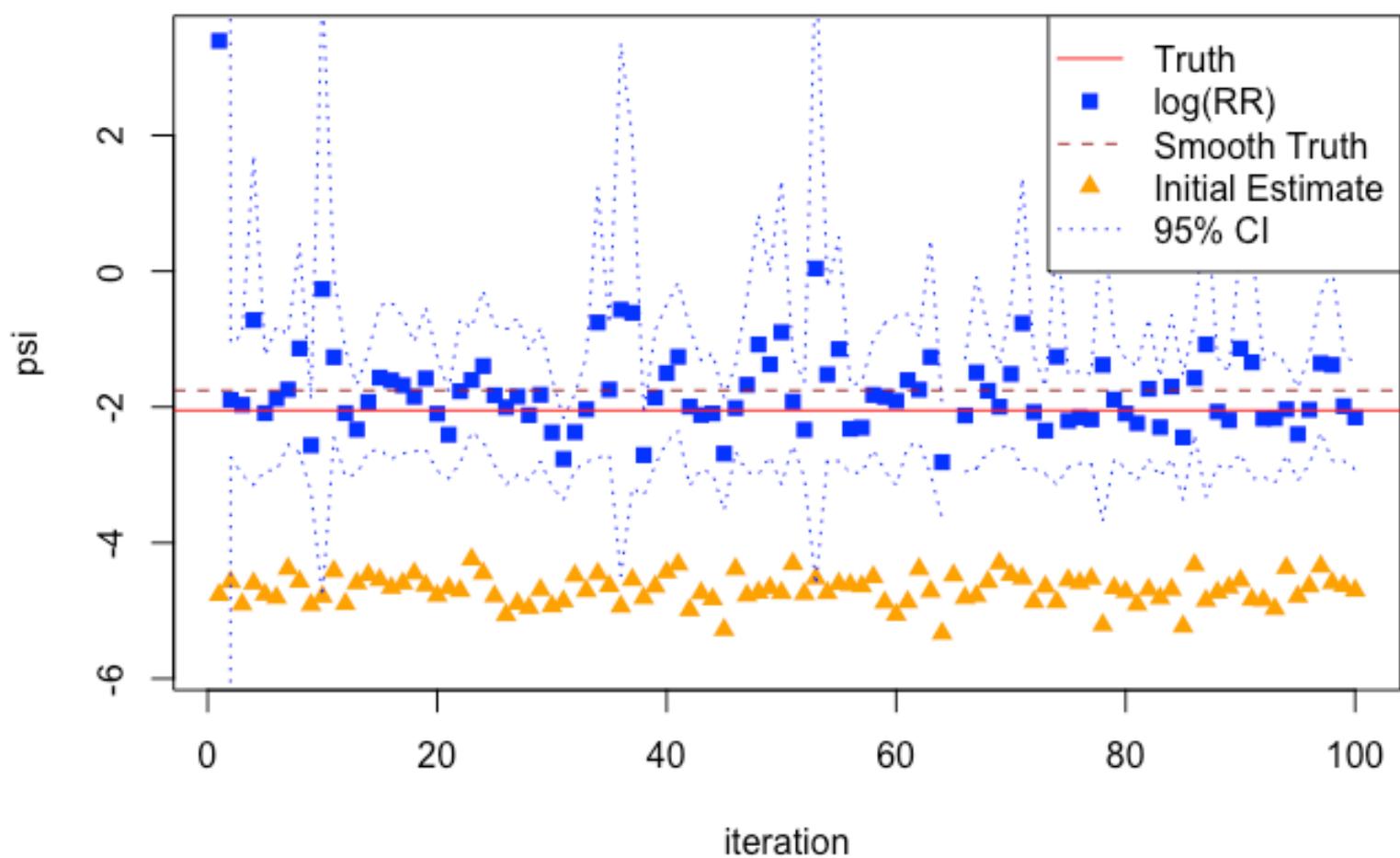
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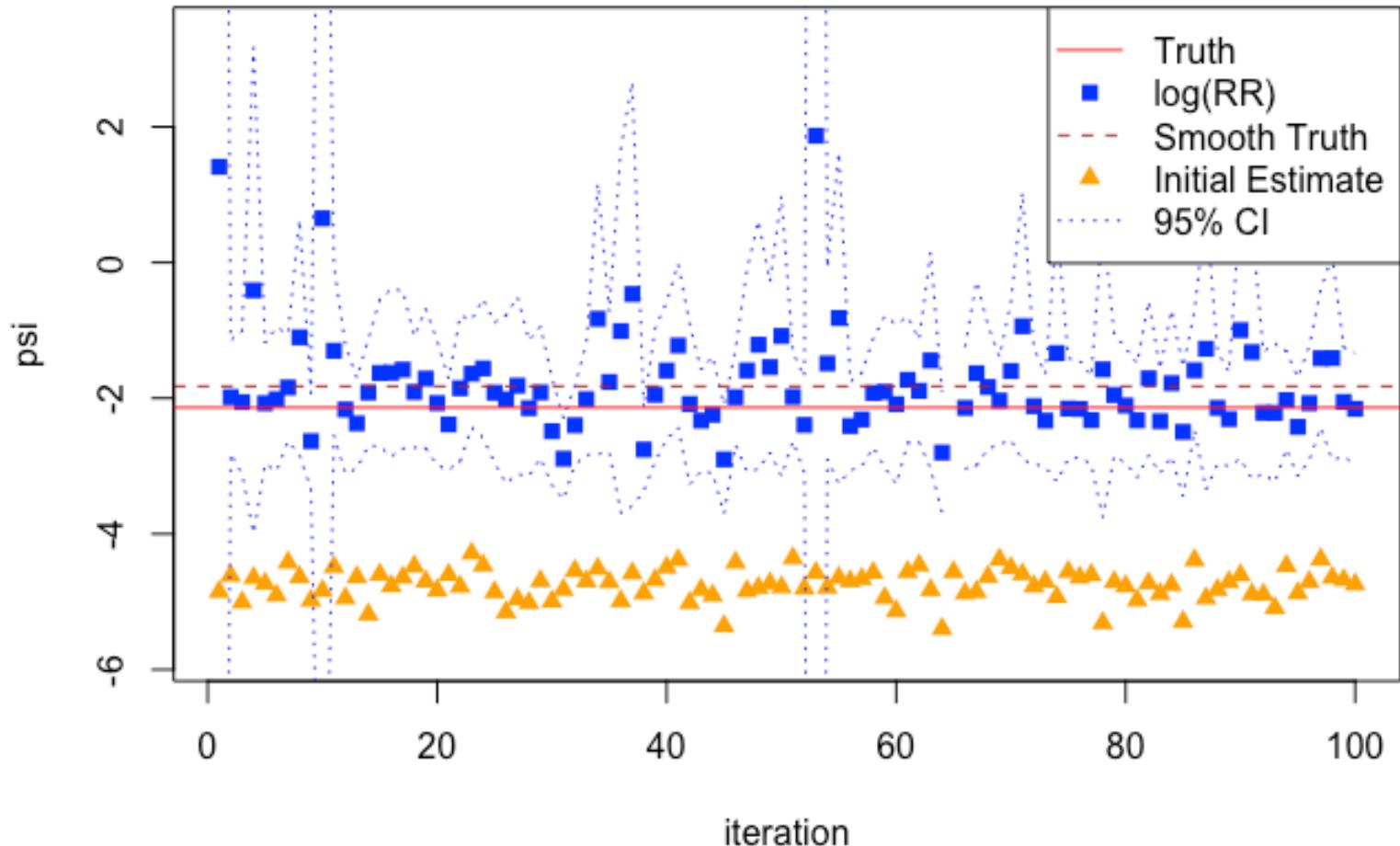
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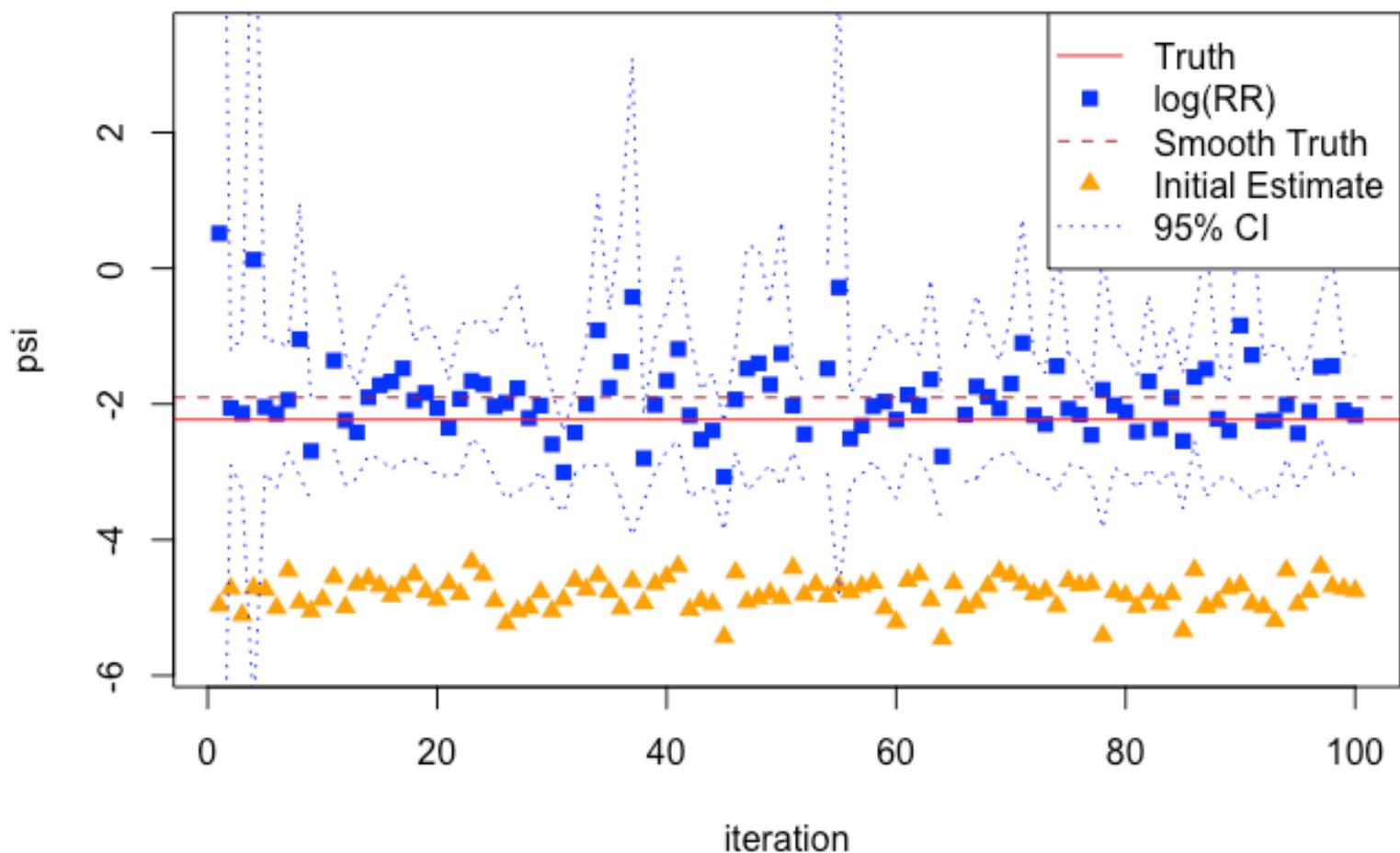
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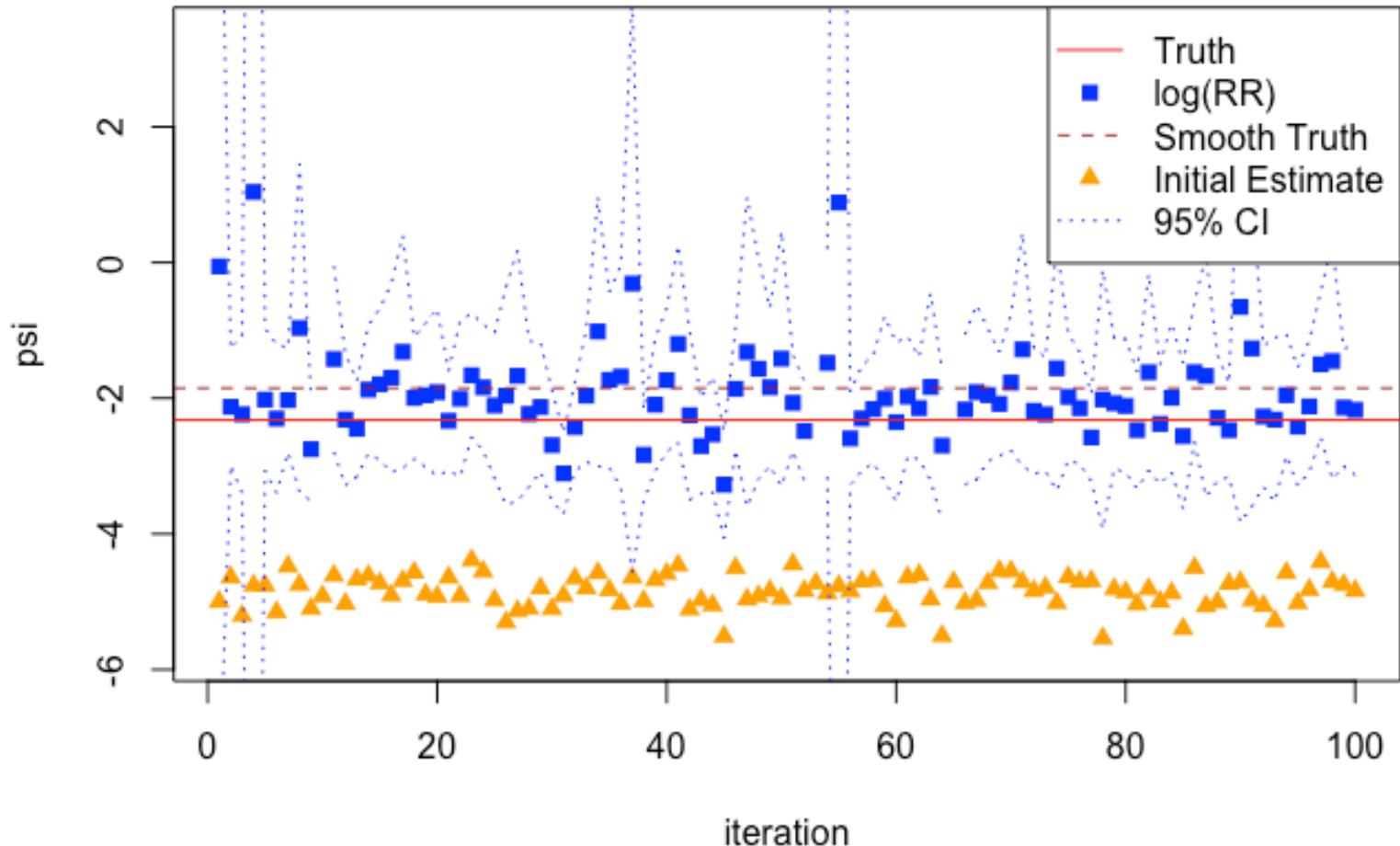
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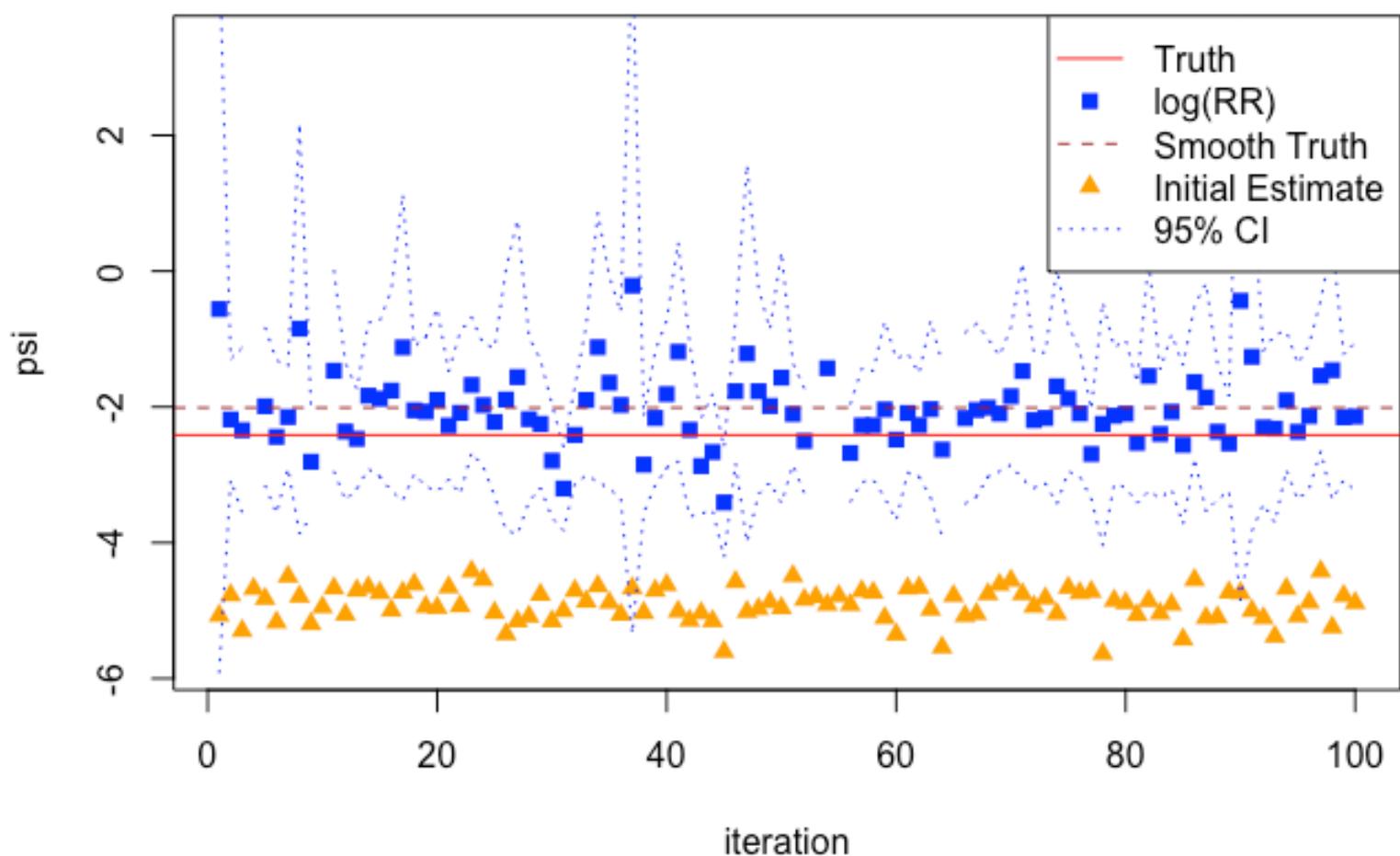
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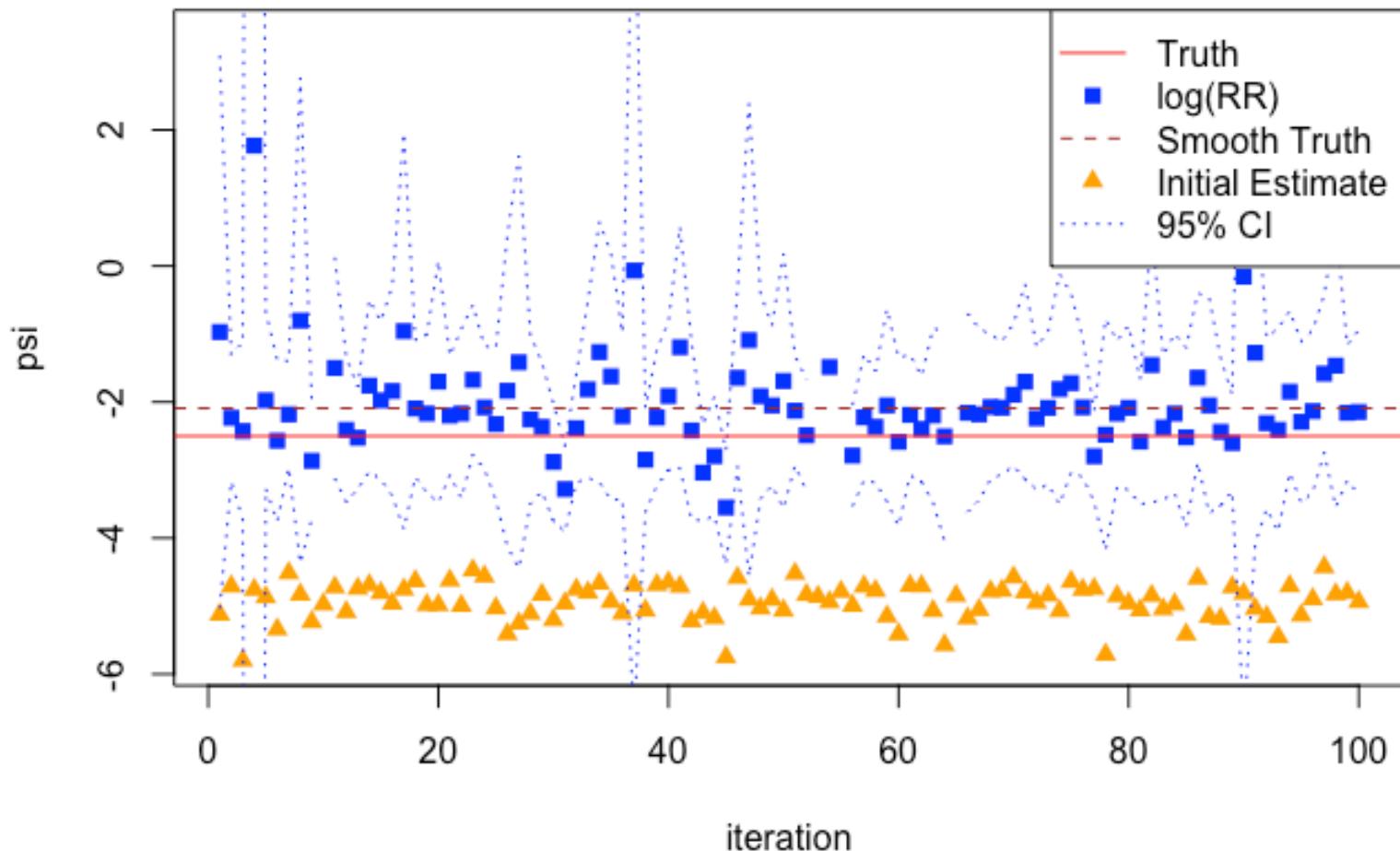
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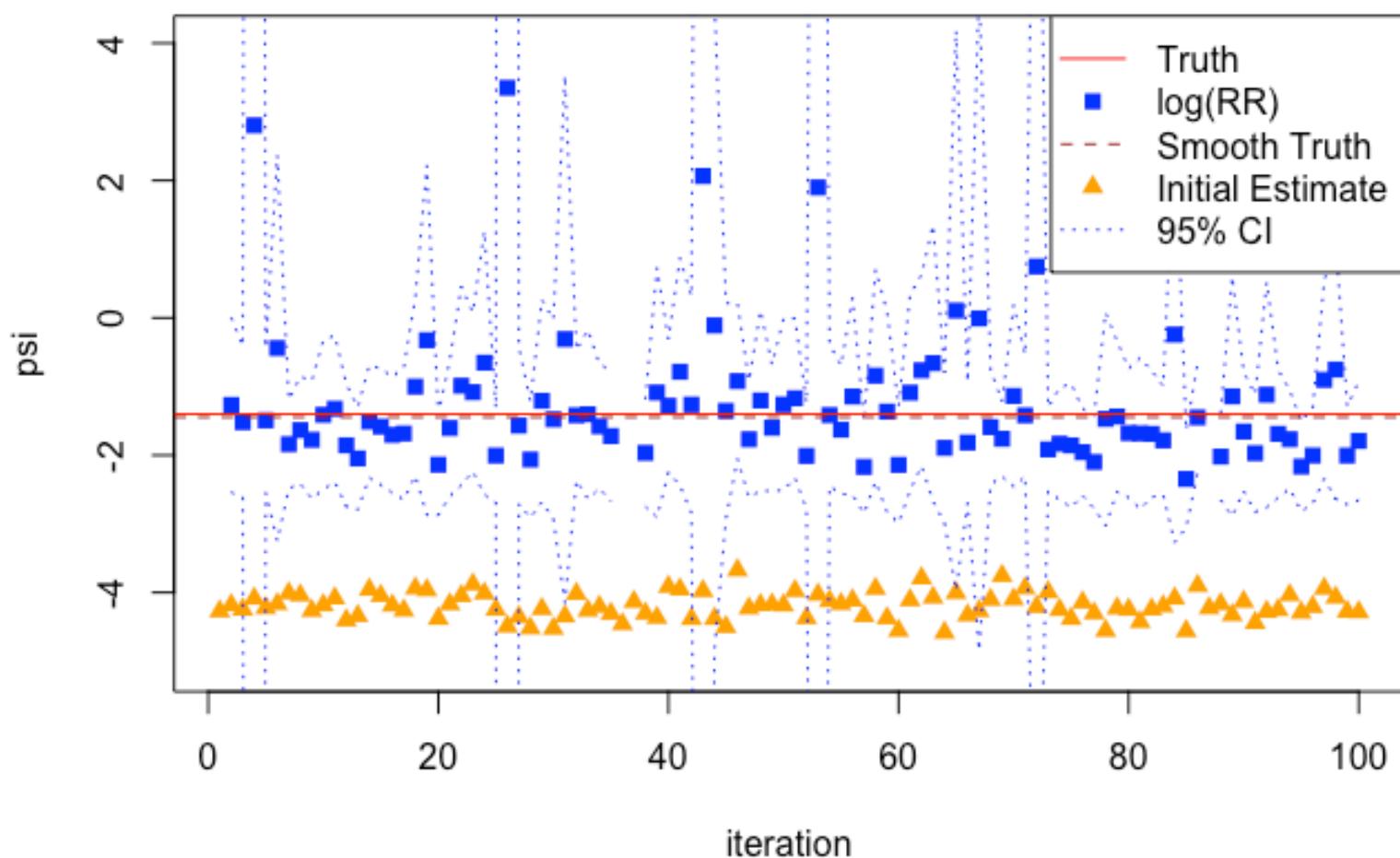
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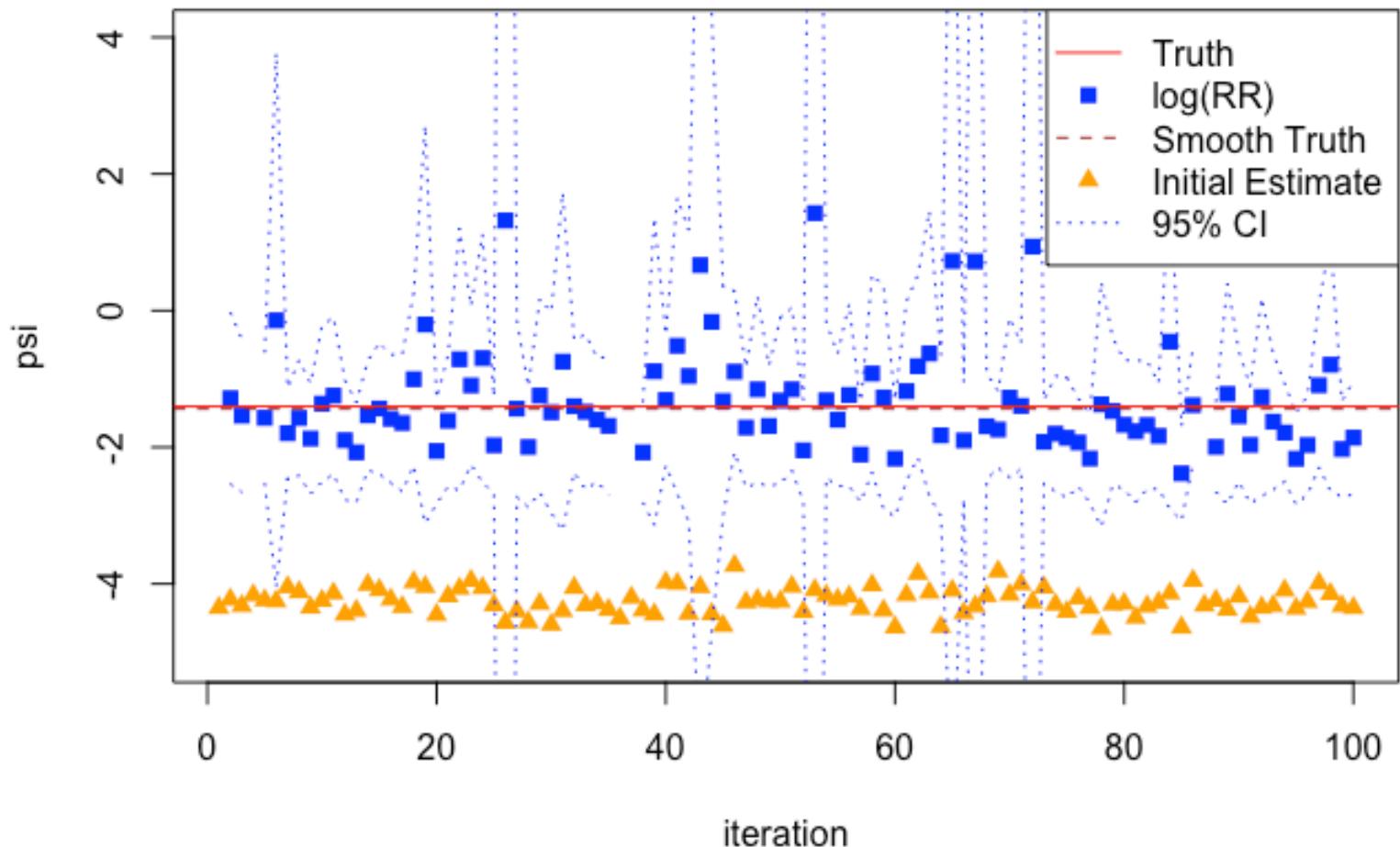
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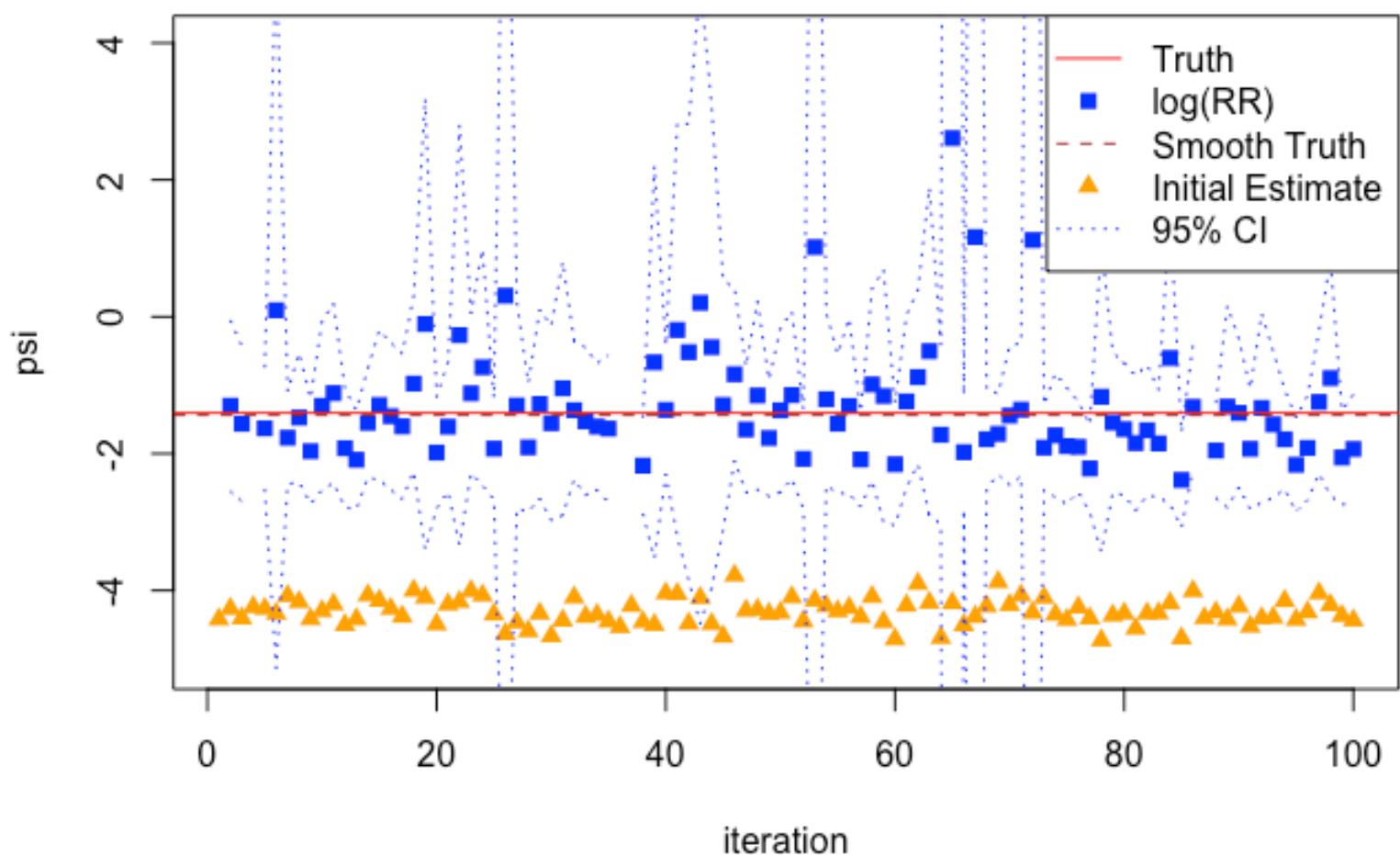
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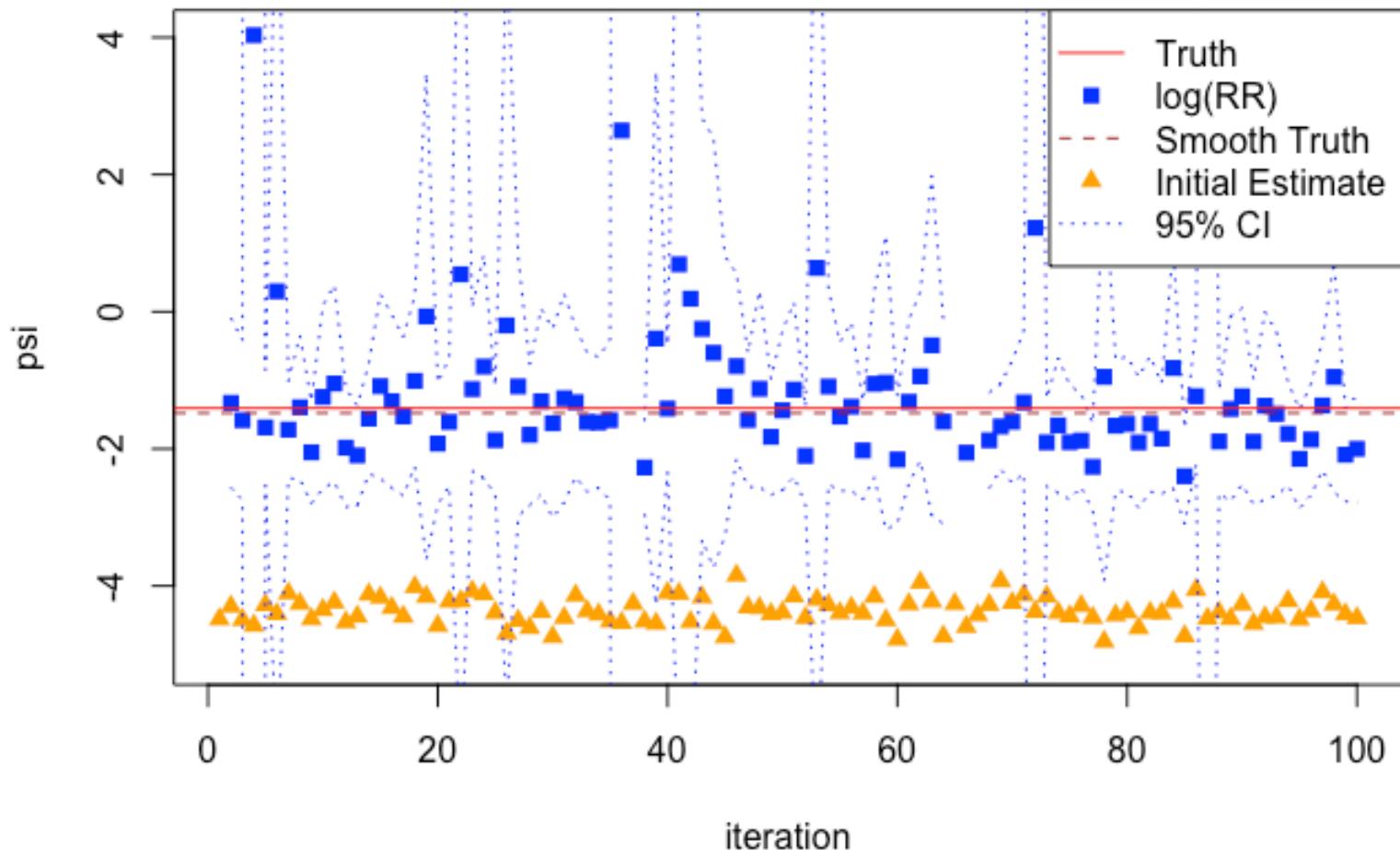
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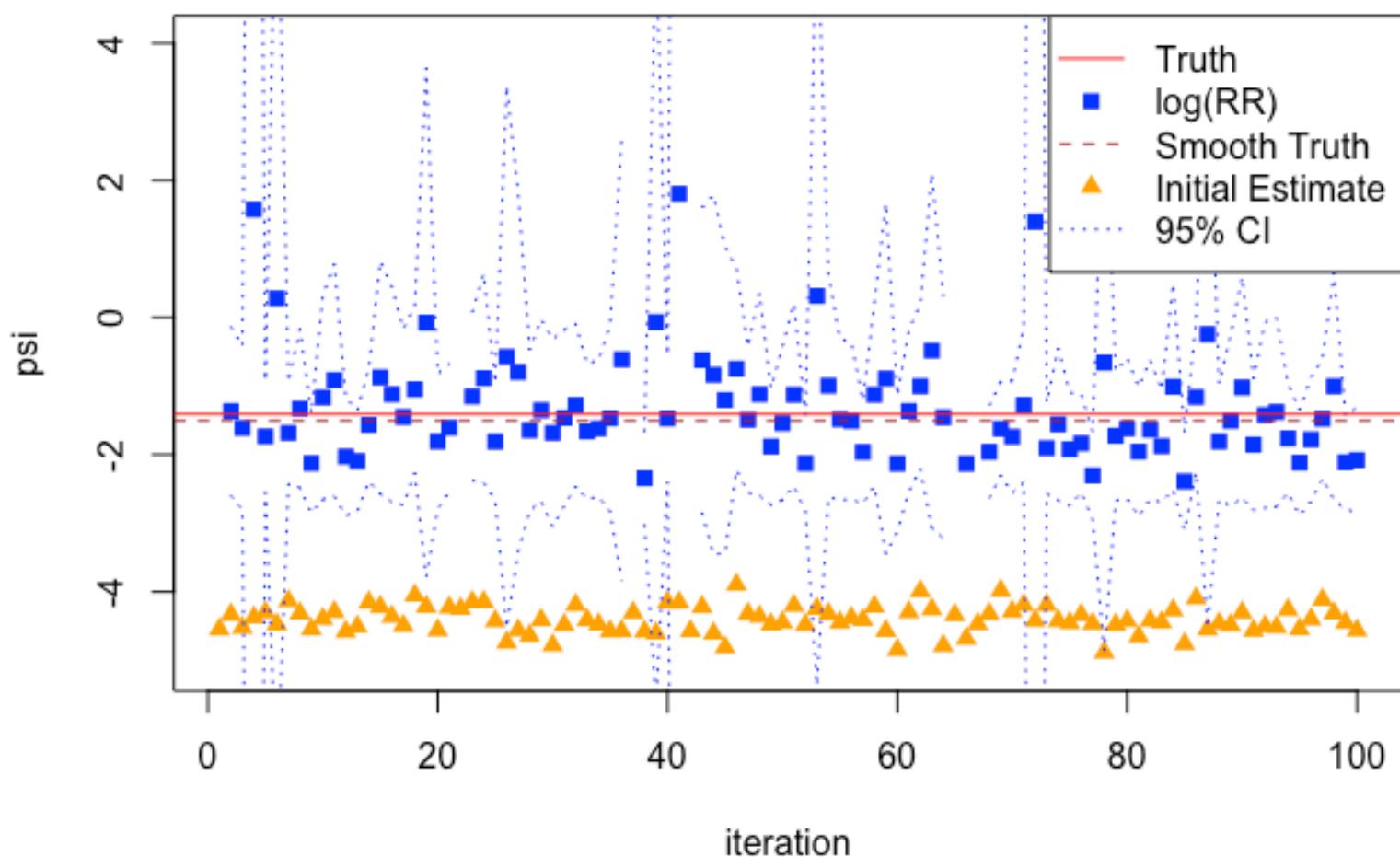
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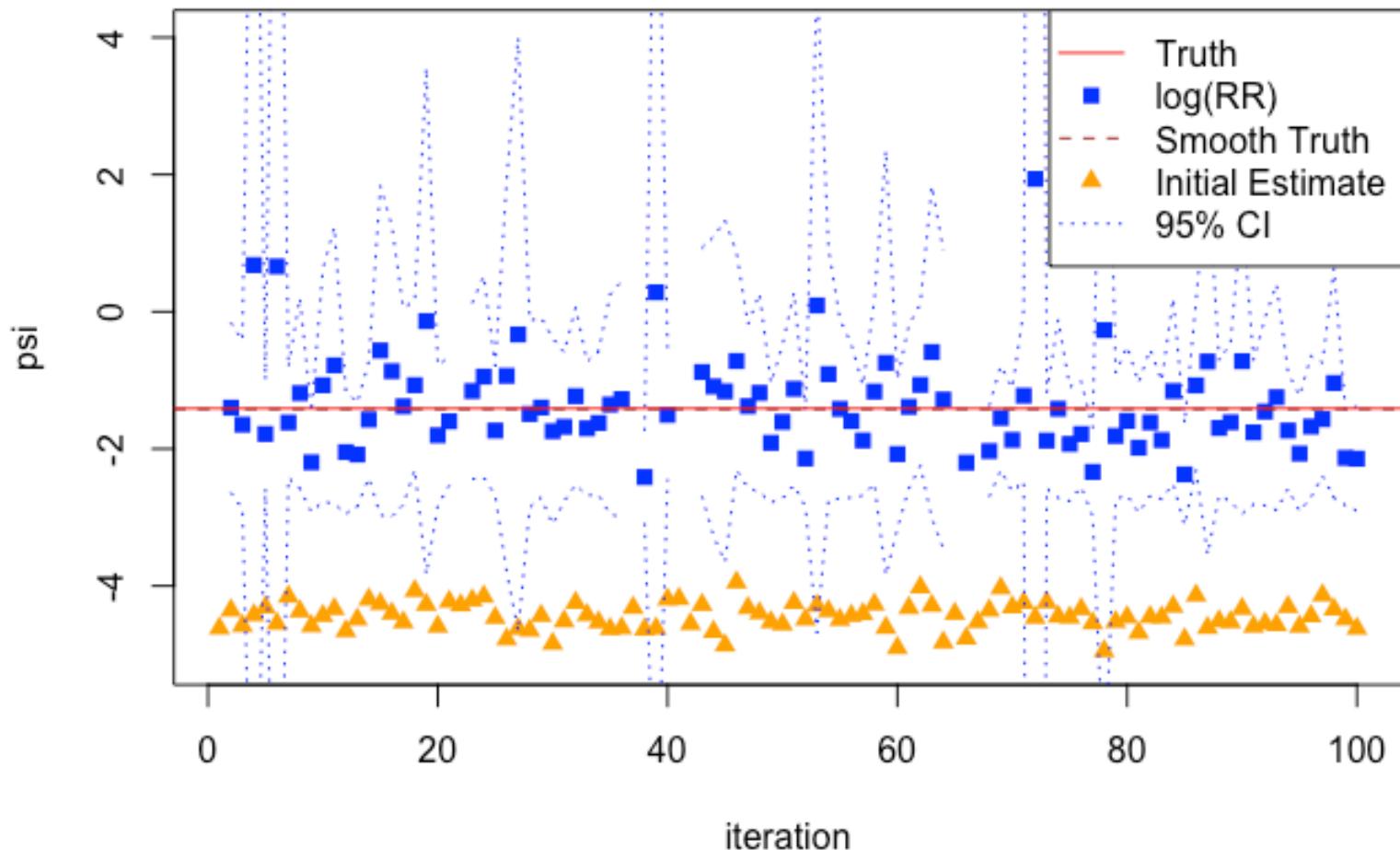
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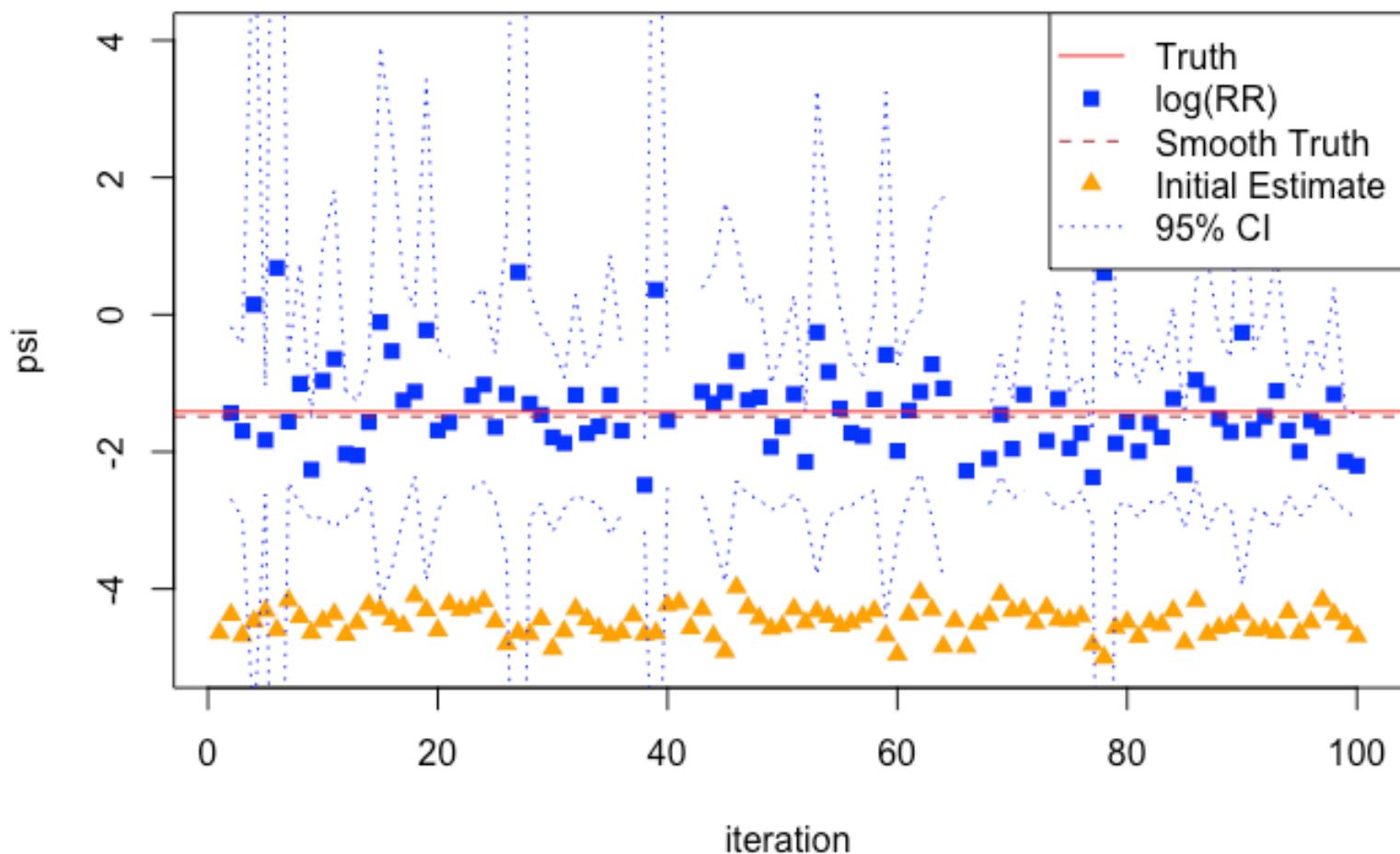
s1=0.4 Null case for $\text{cor}(S1,W)=0.25$, crossover rate=1, sample rate=0.25



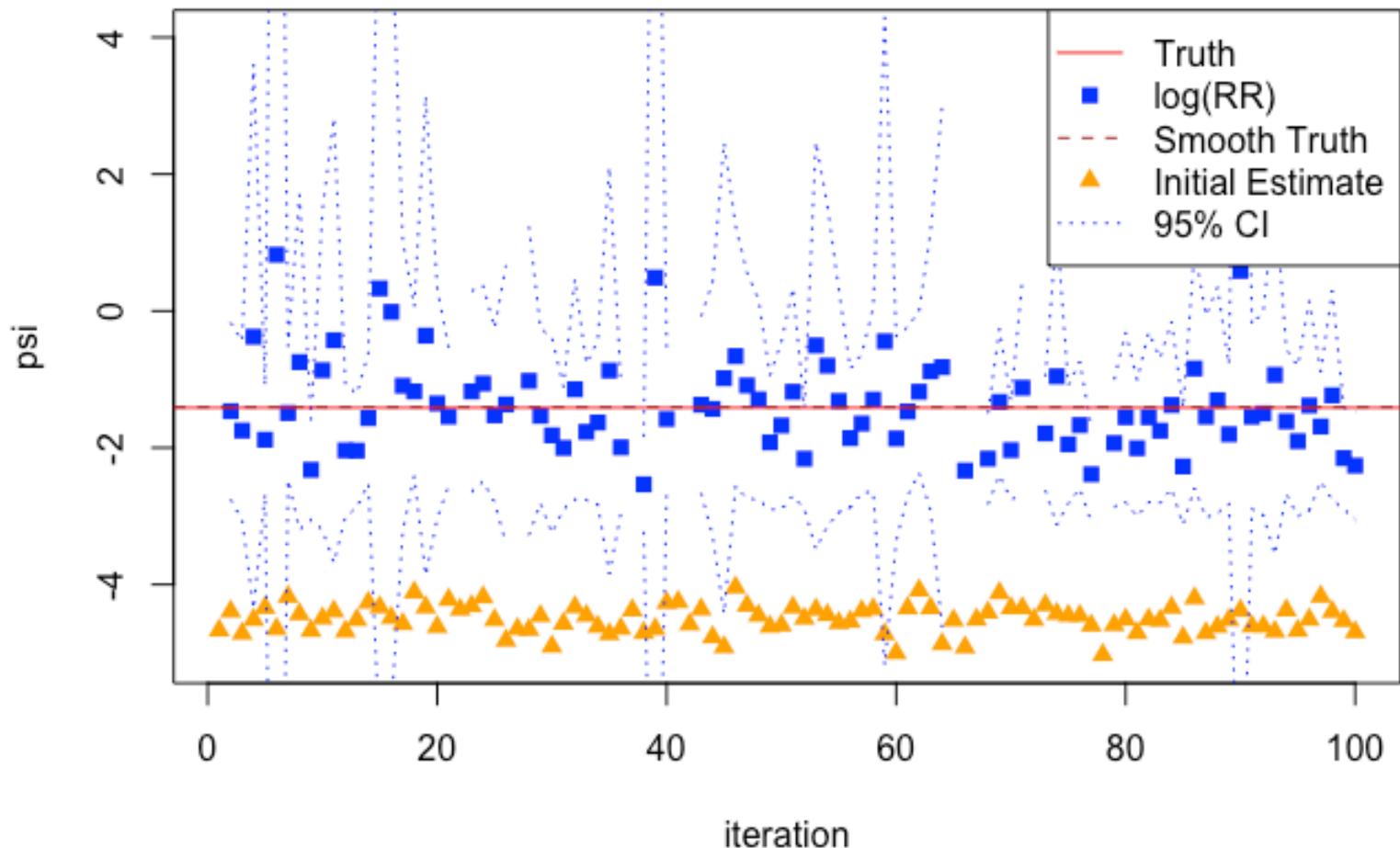
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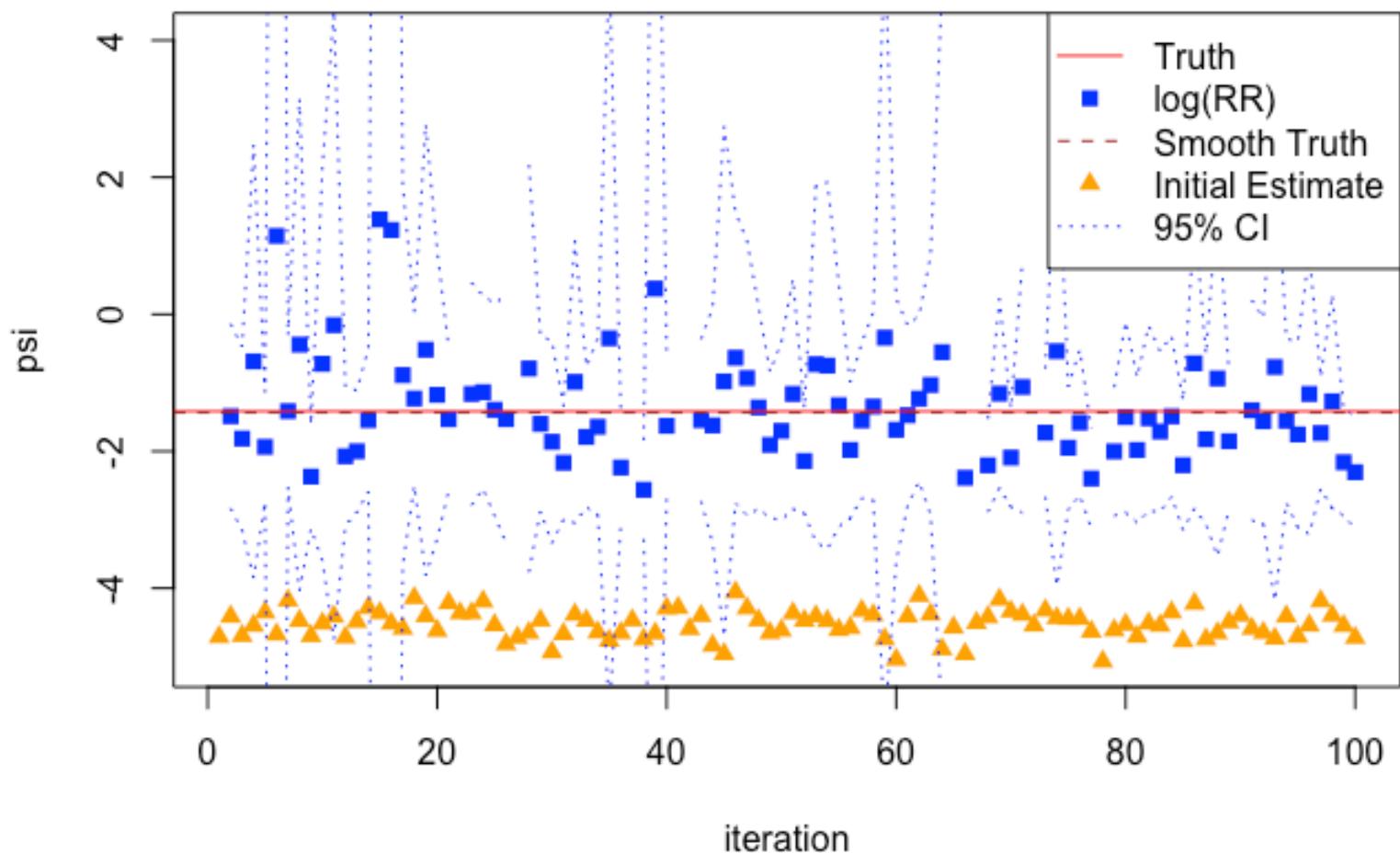
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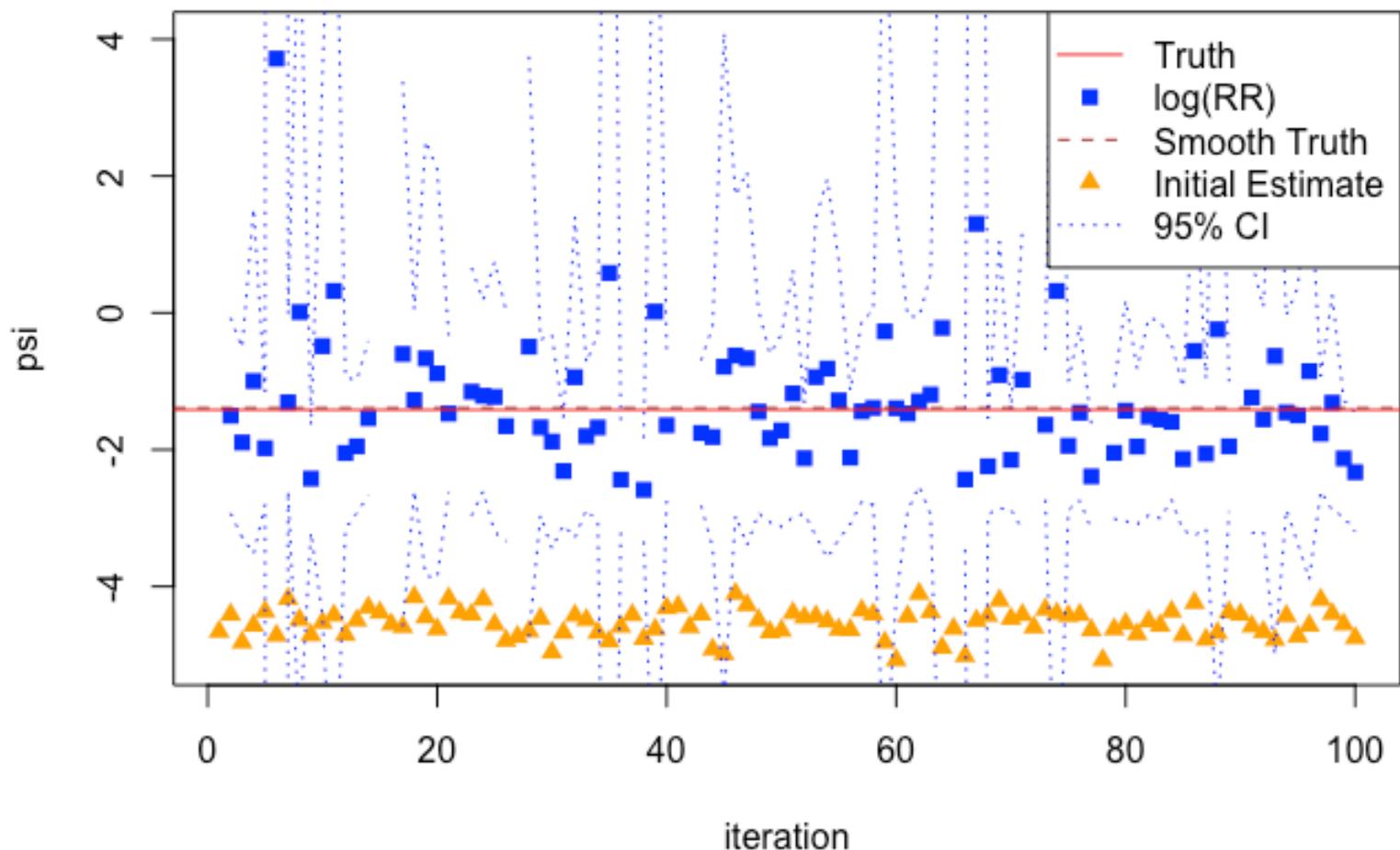
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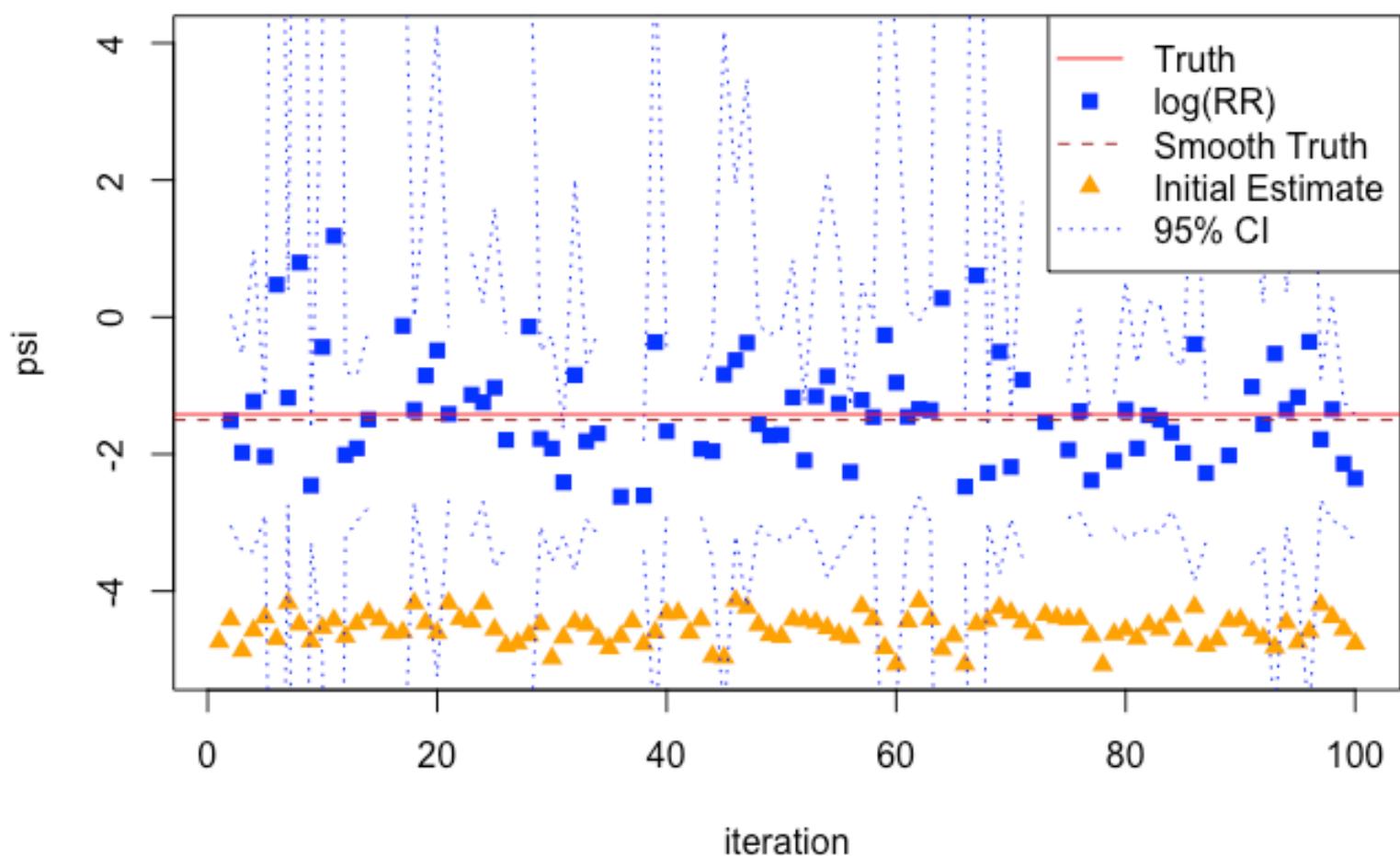
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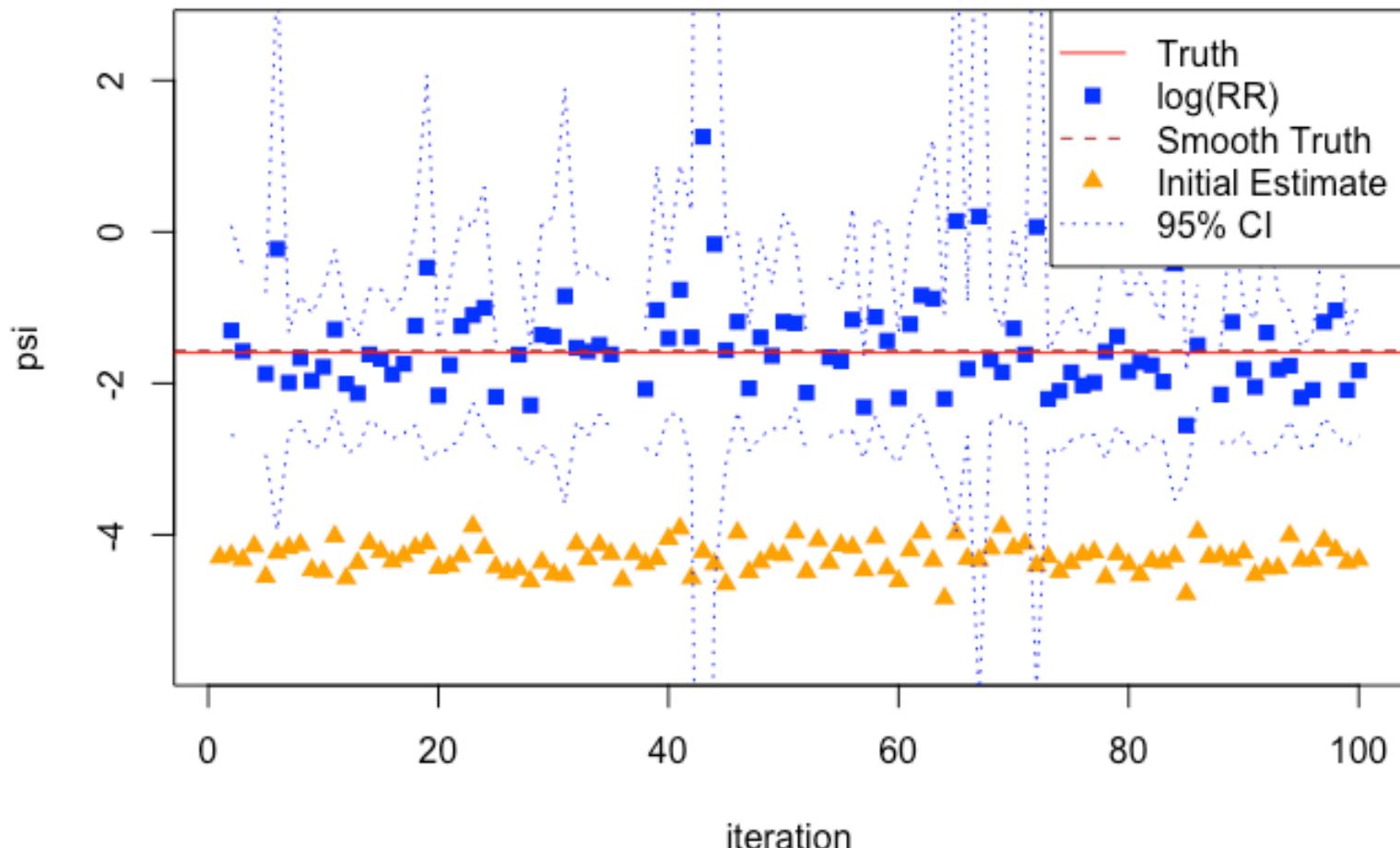
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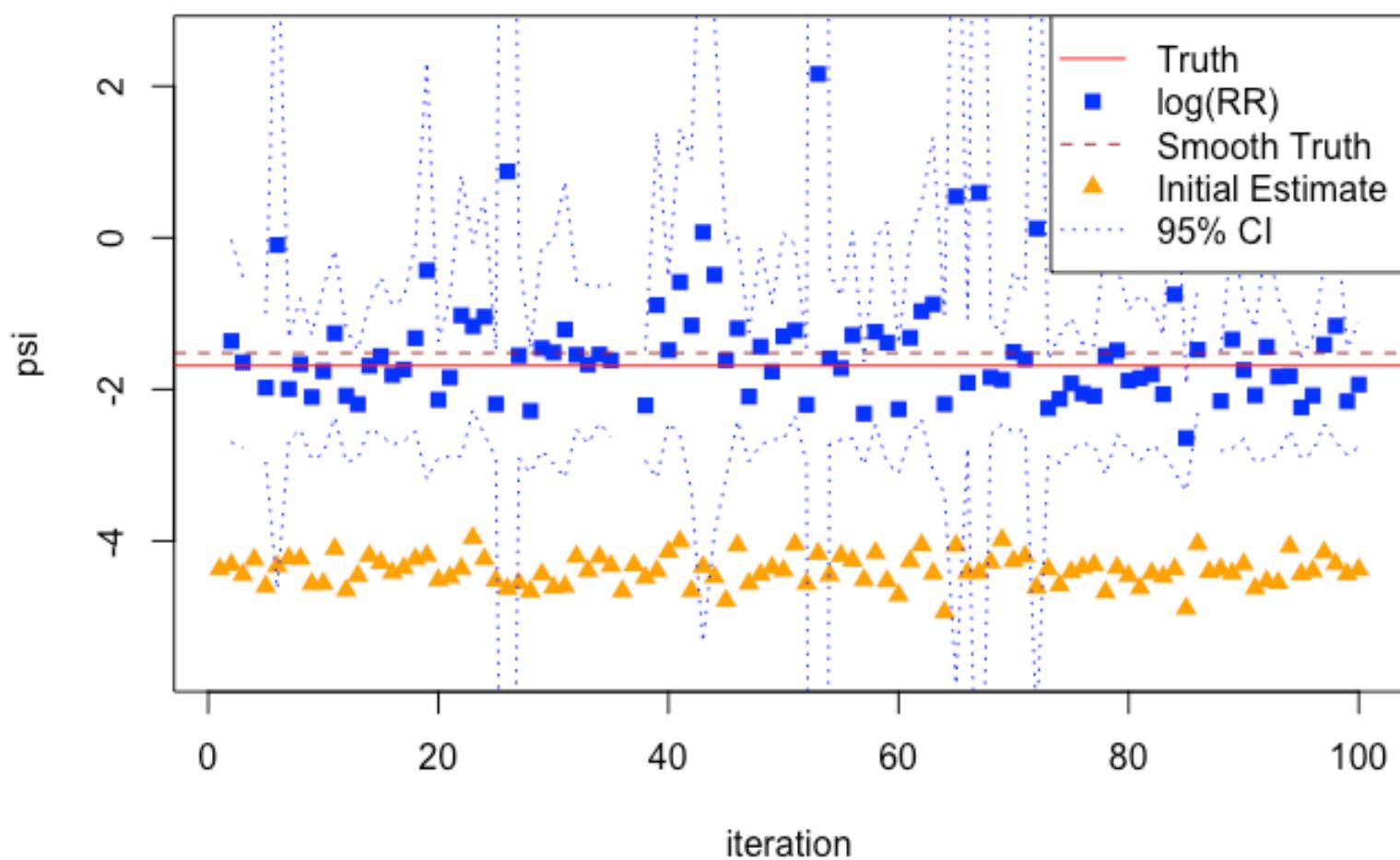
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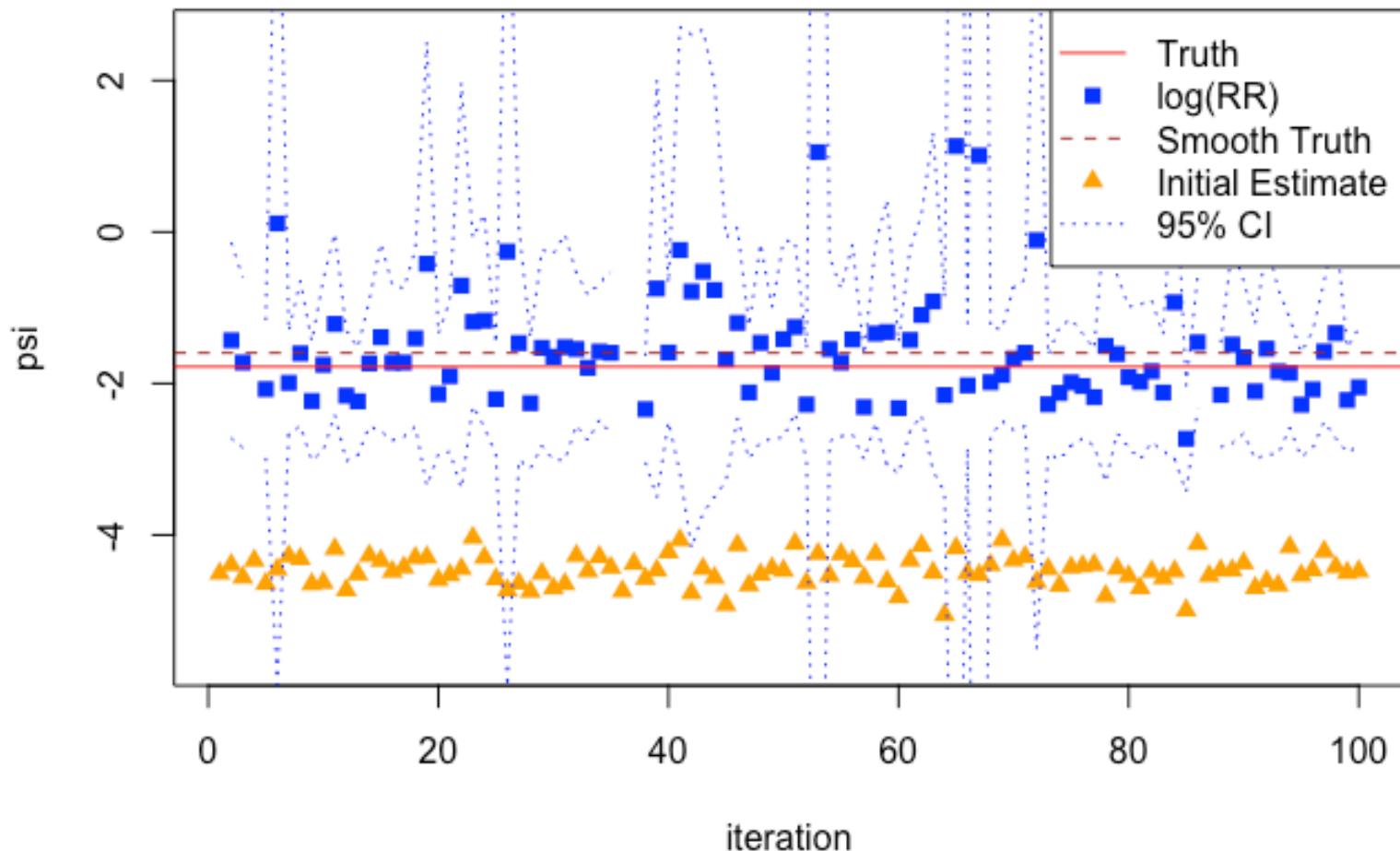
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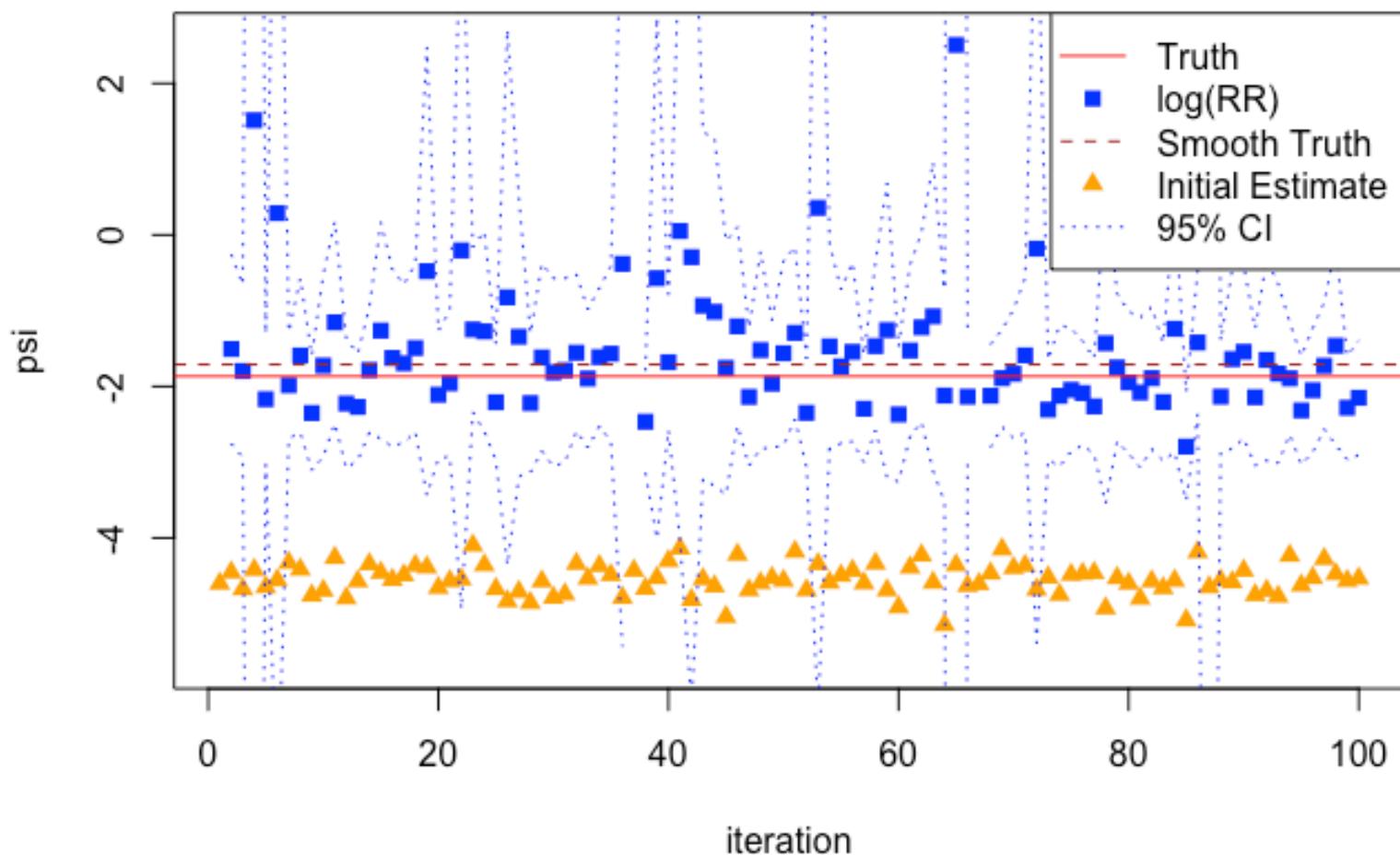
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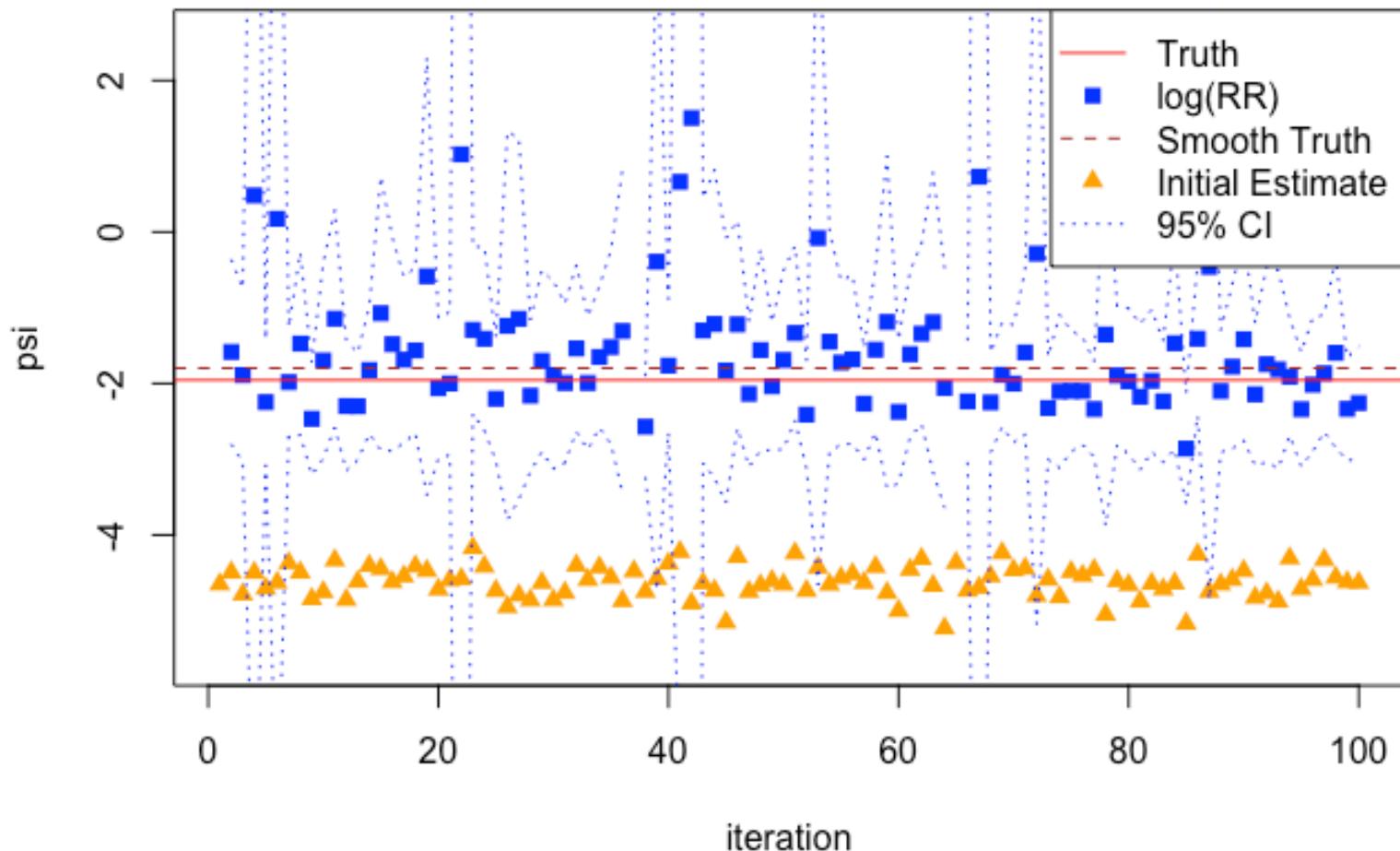
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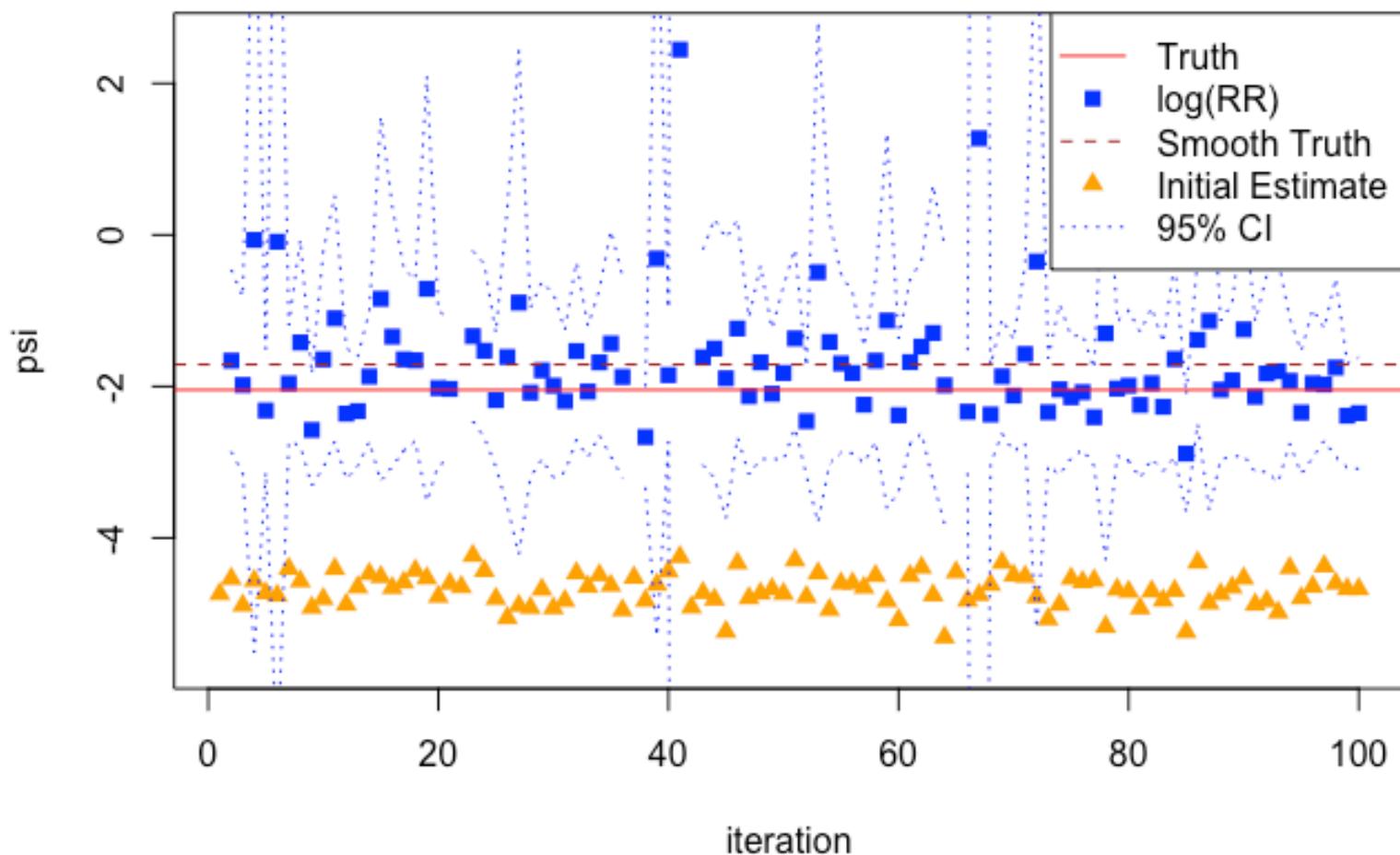
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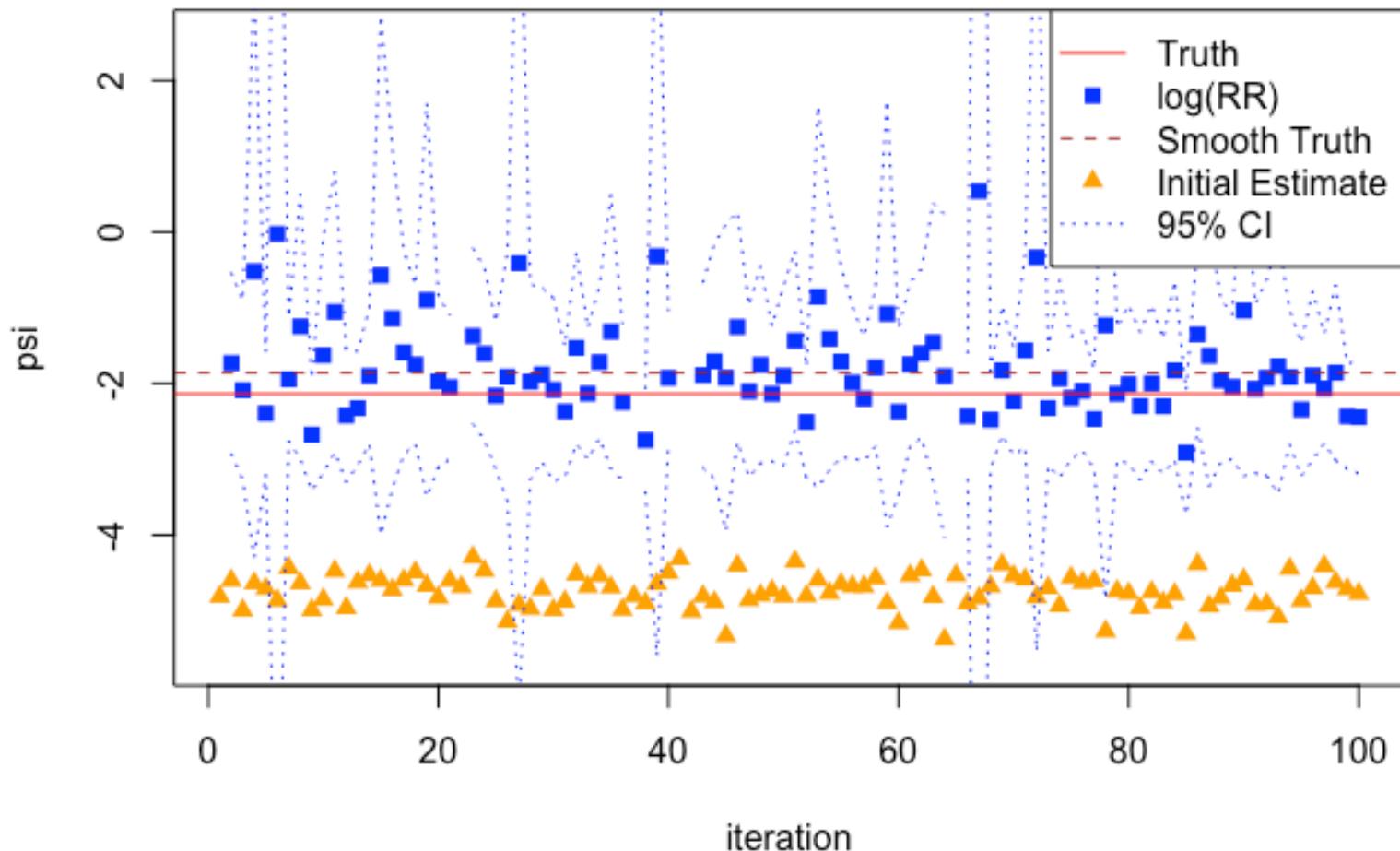
$s_1=0.4$ Alternative case for $\text{cor}(S1, W)=0.25$, crossover rate=1, sample rate=0.25



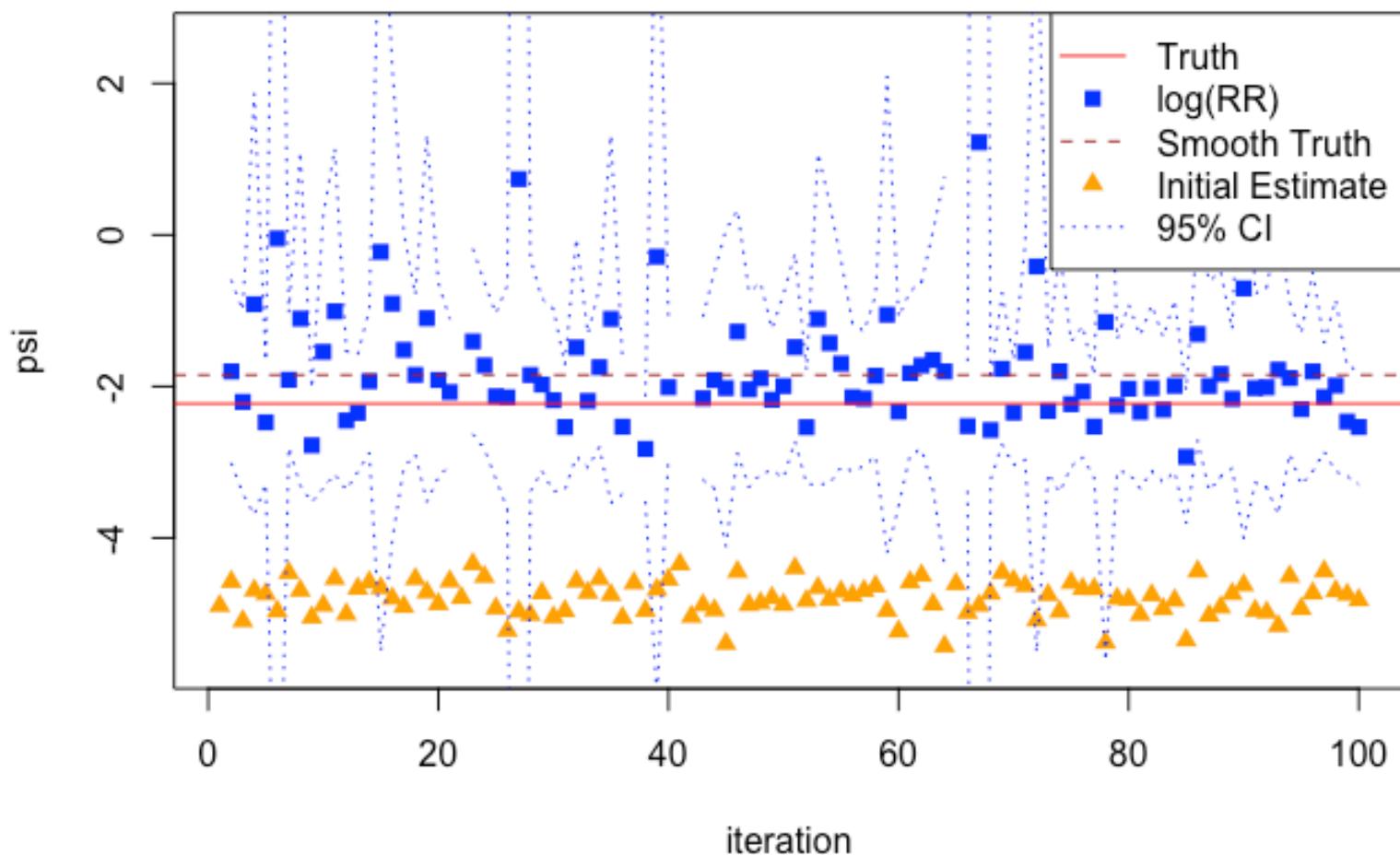
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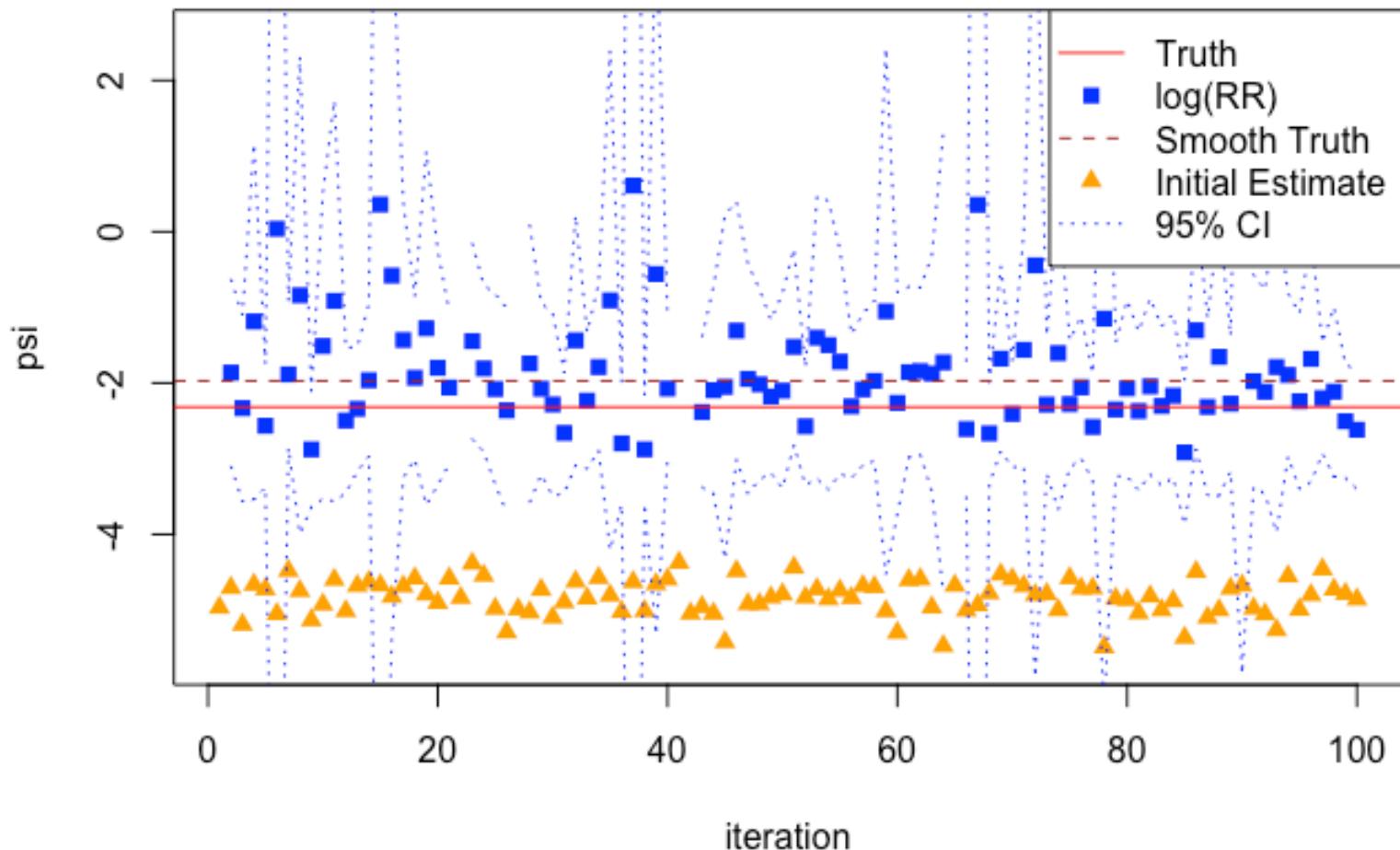
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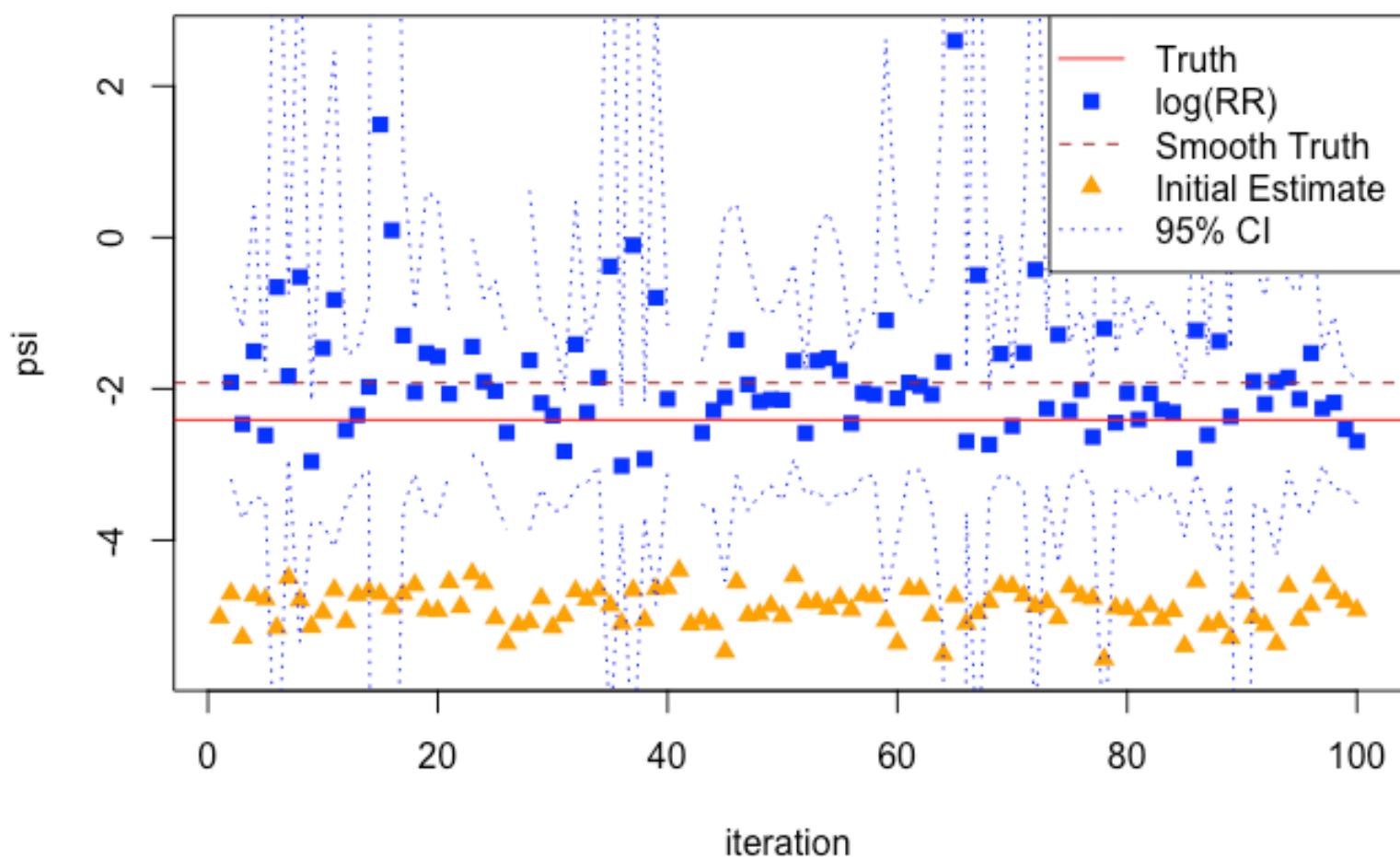
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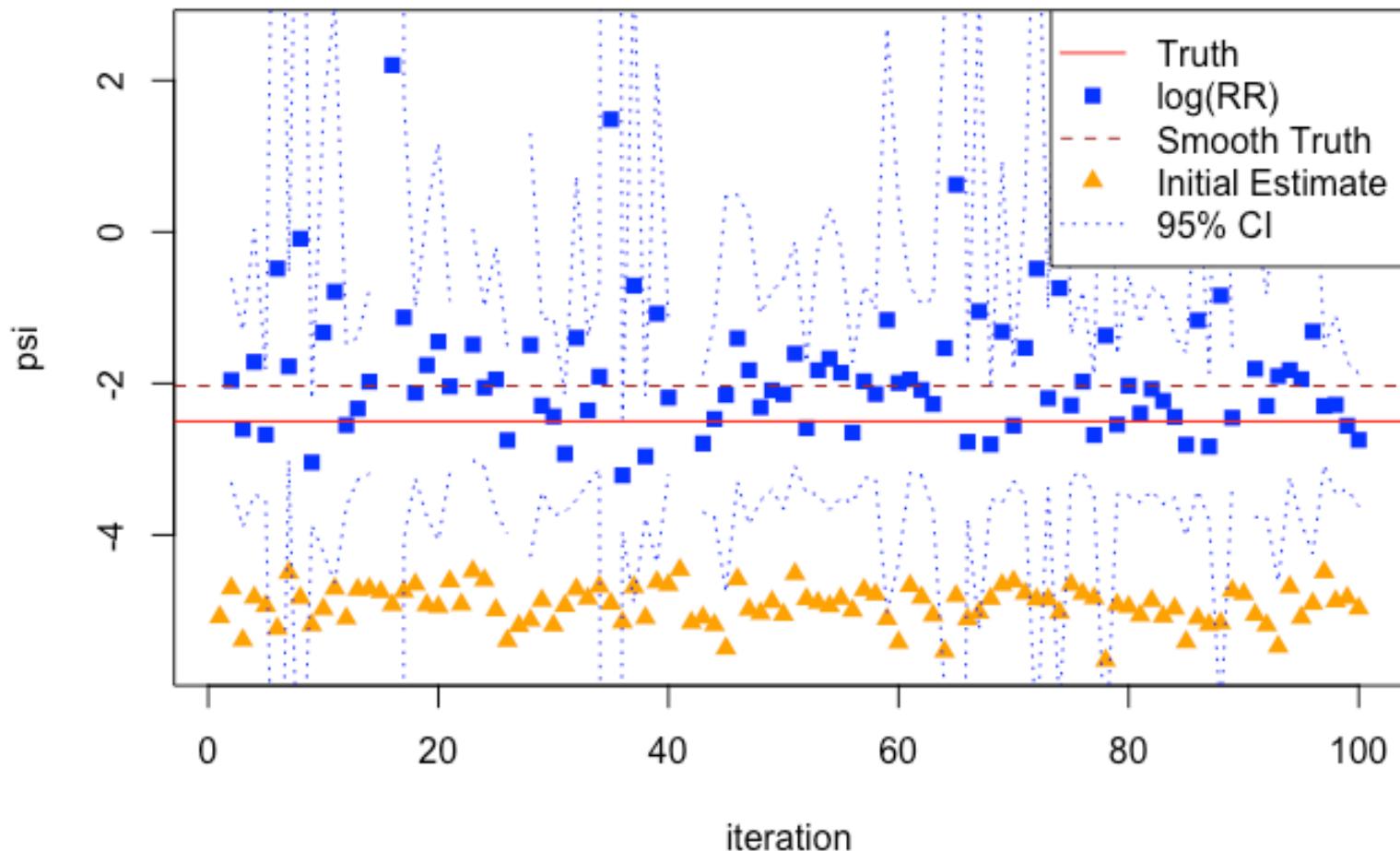
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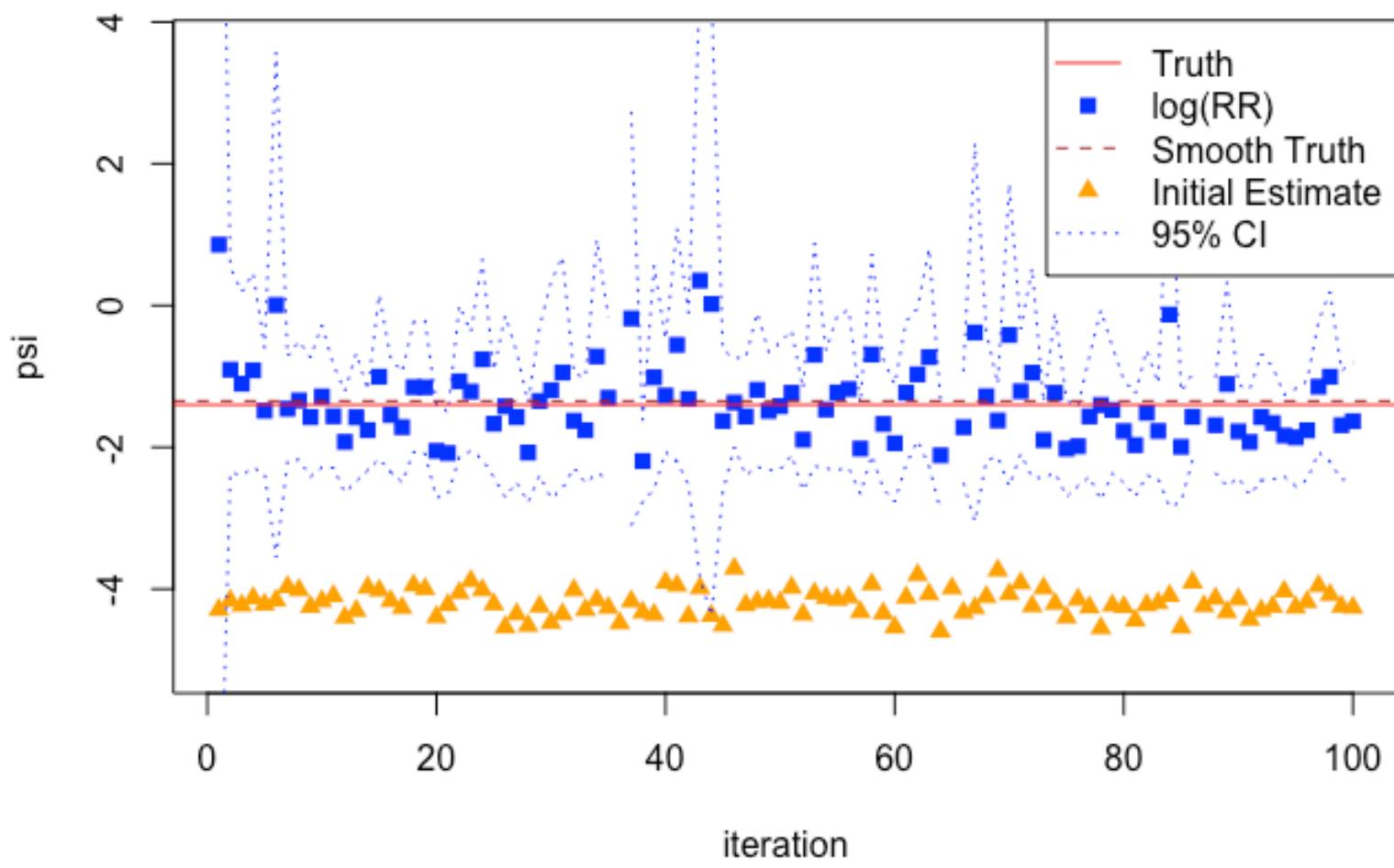
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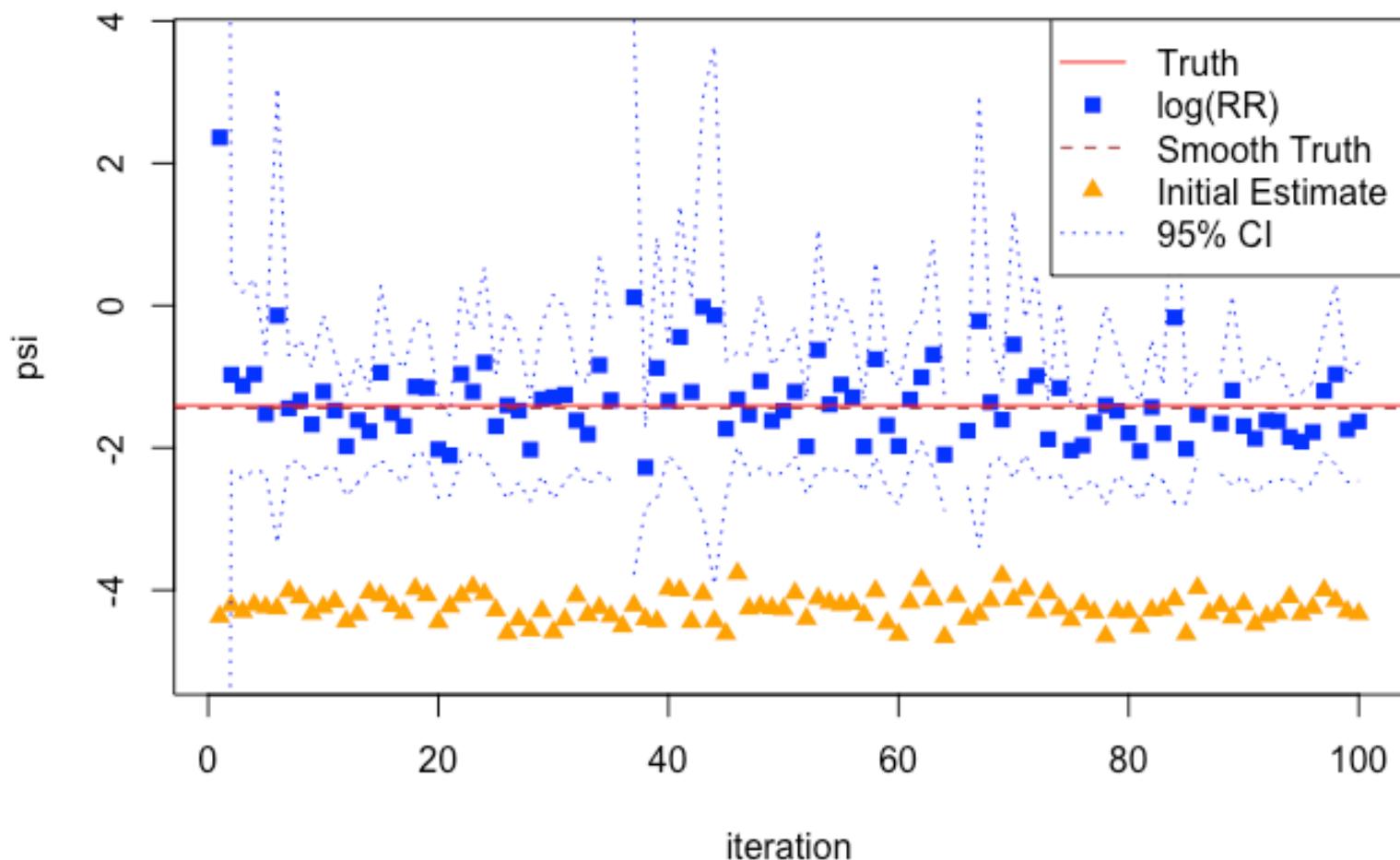
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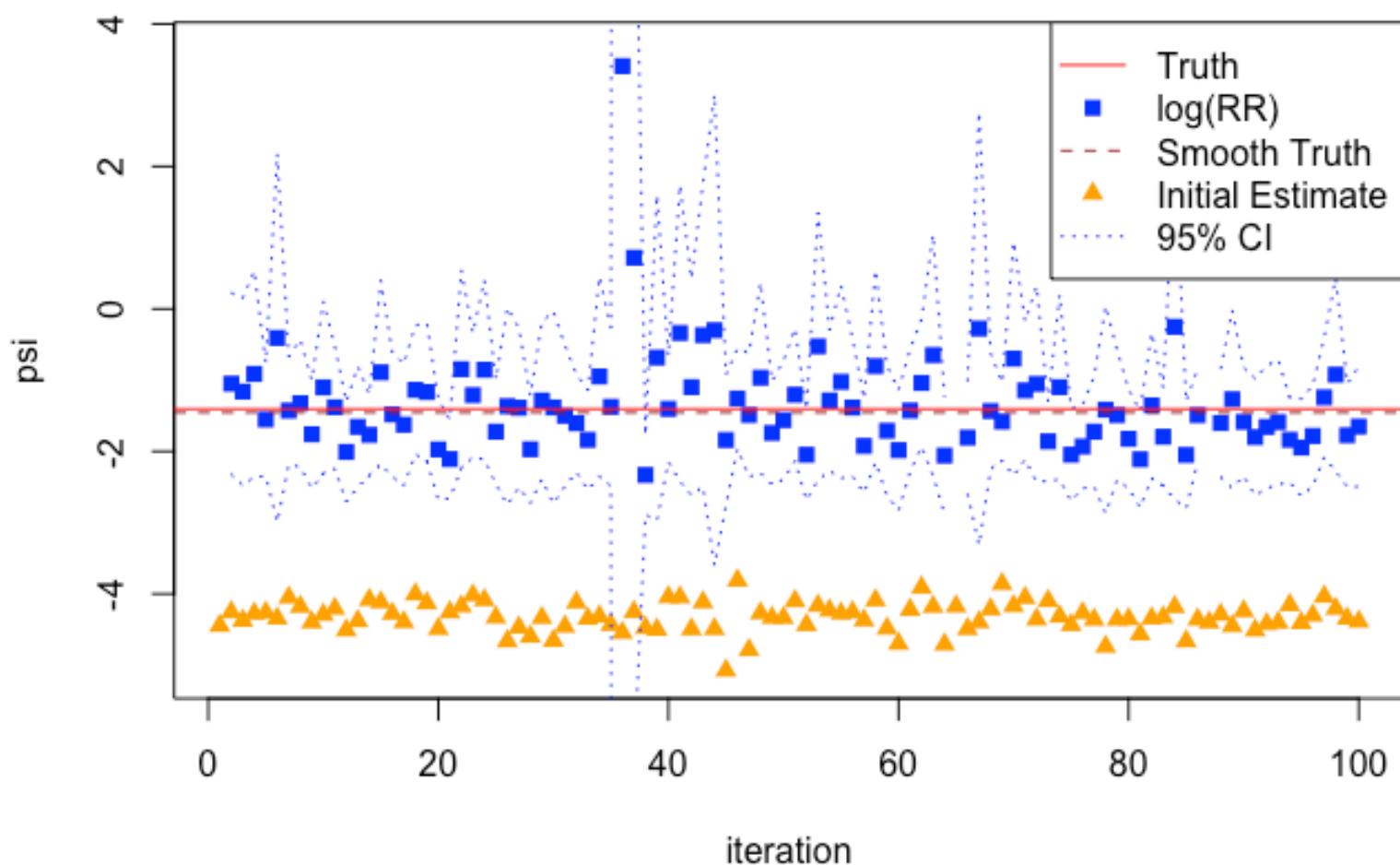
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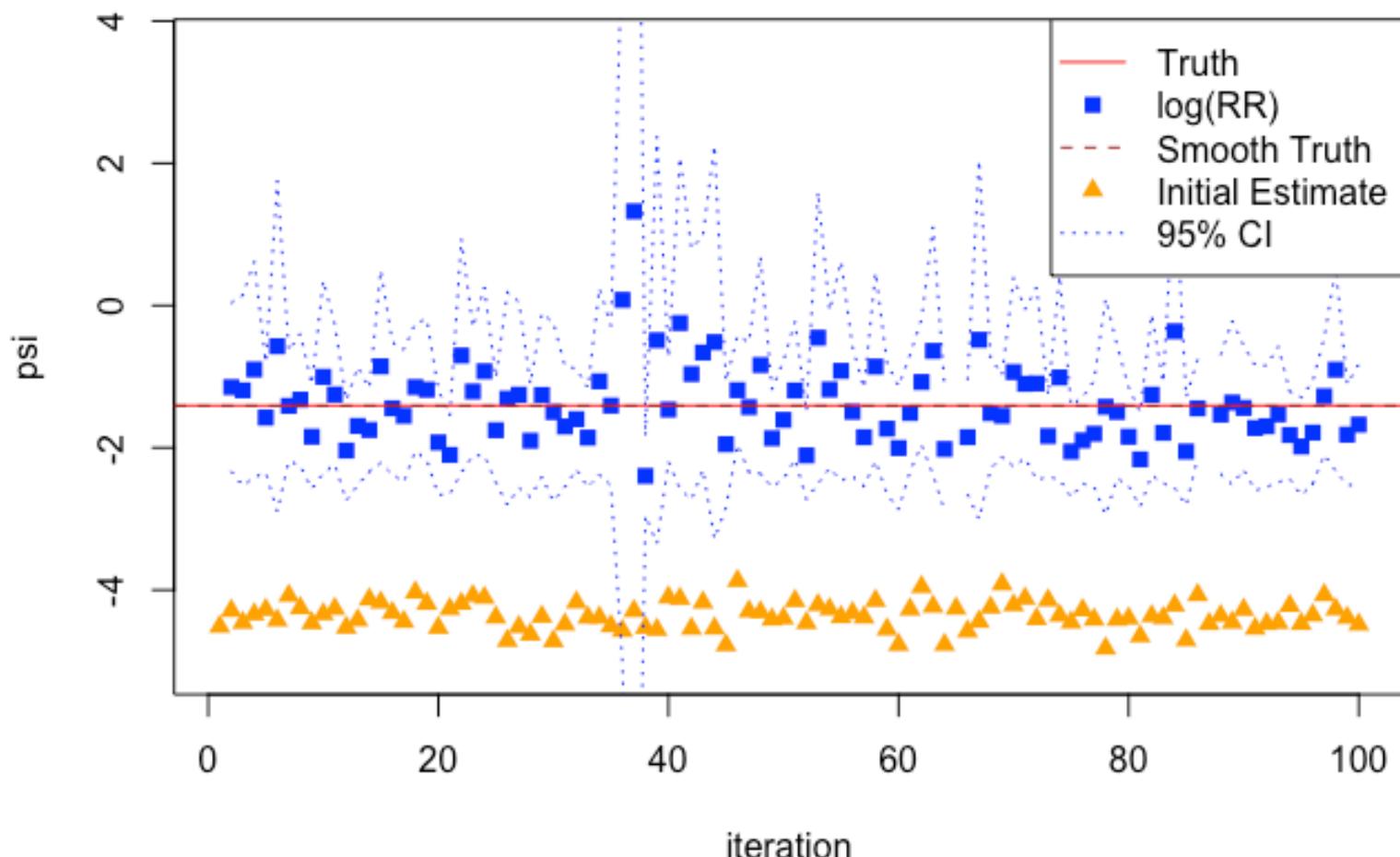
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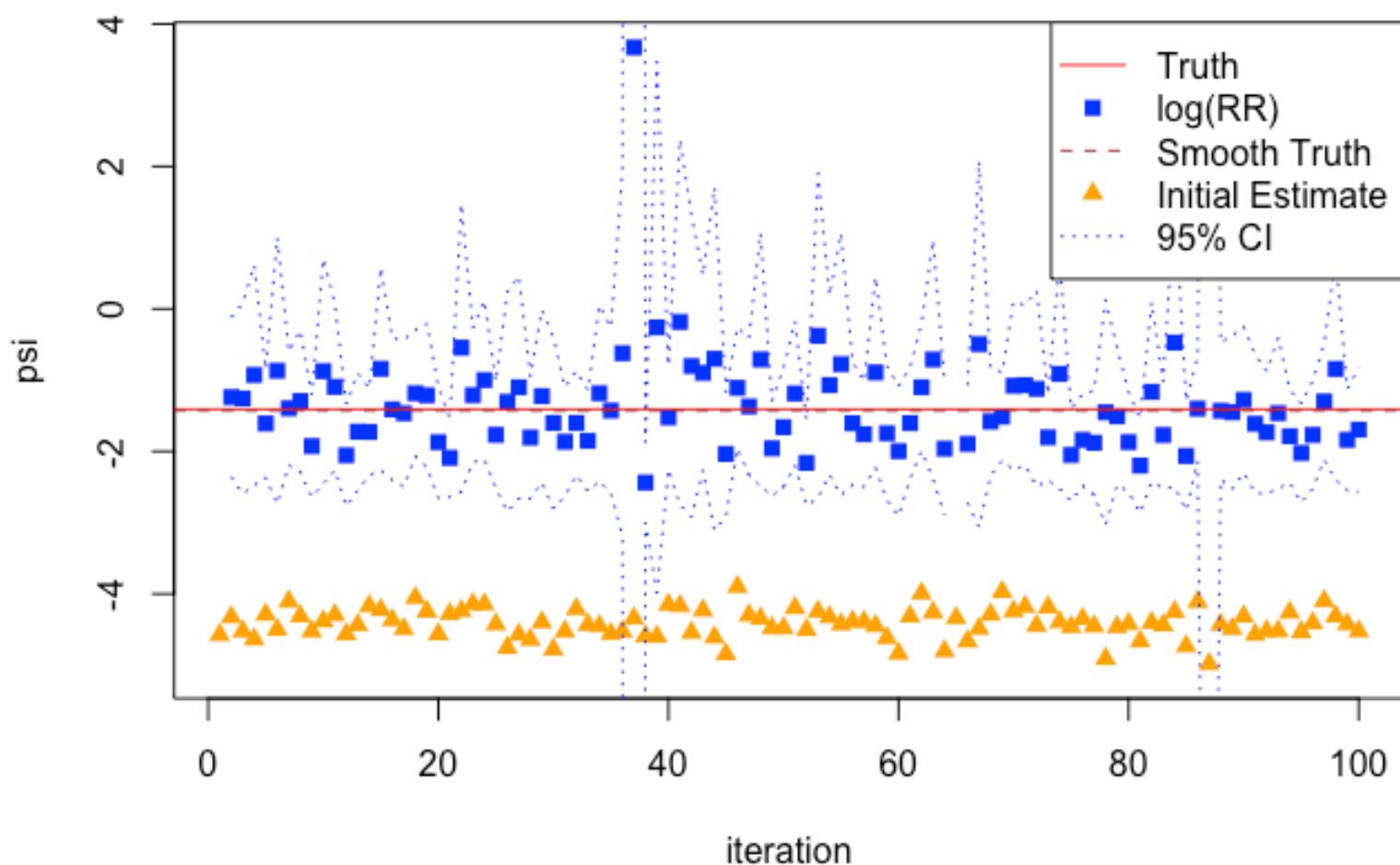
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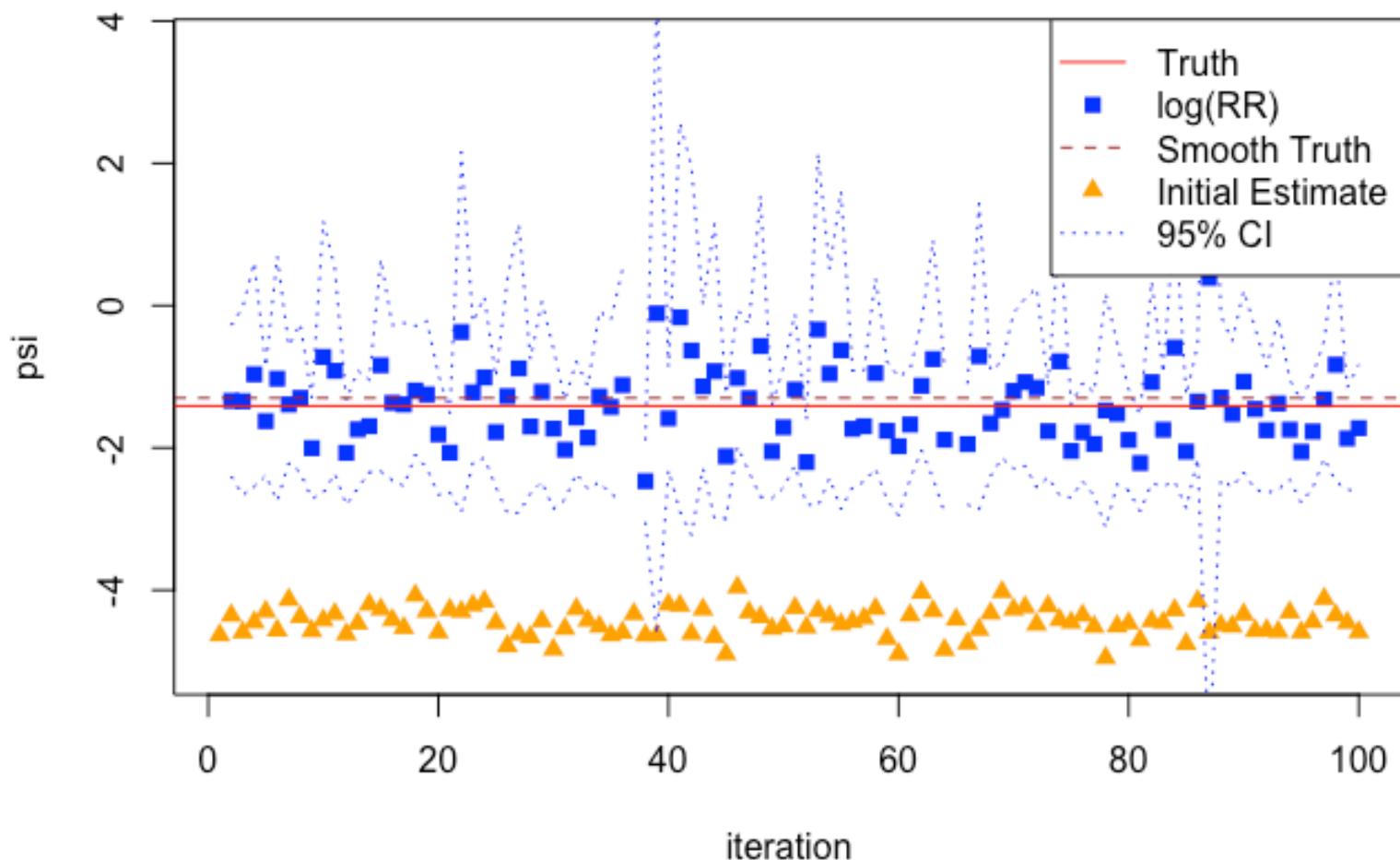
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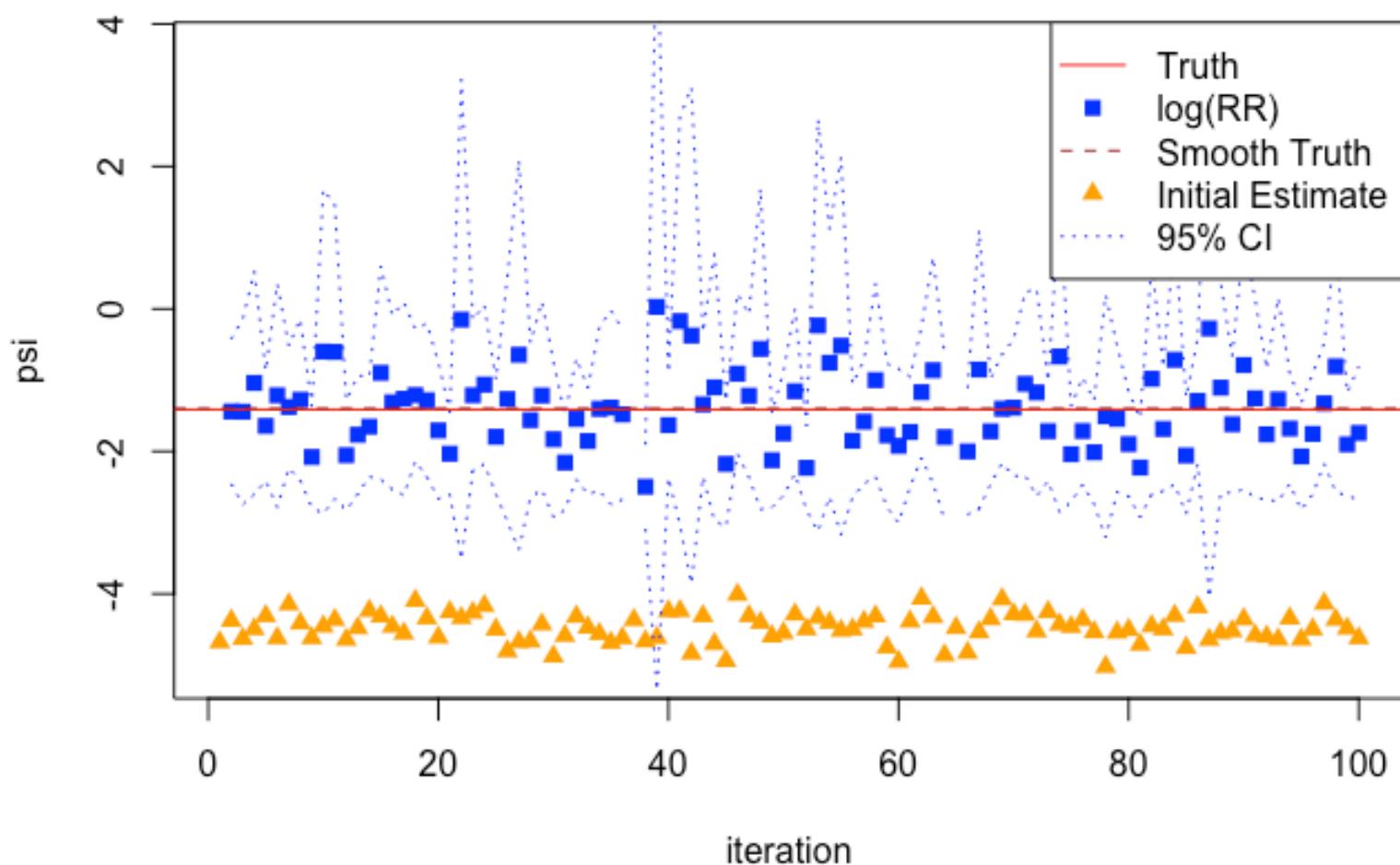
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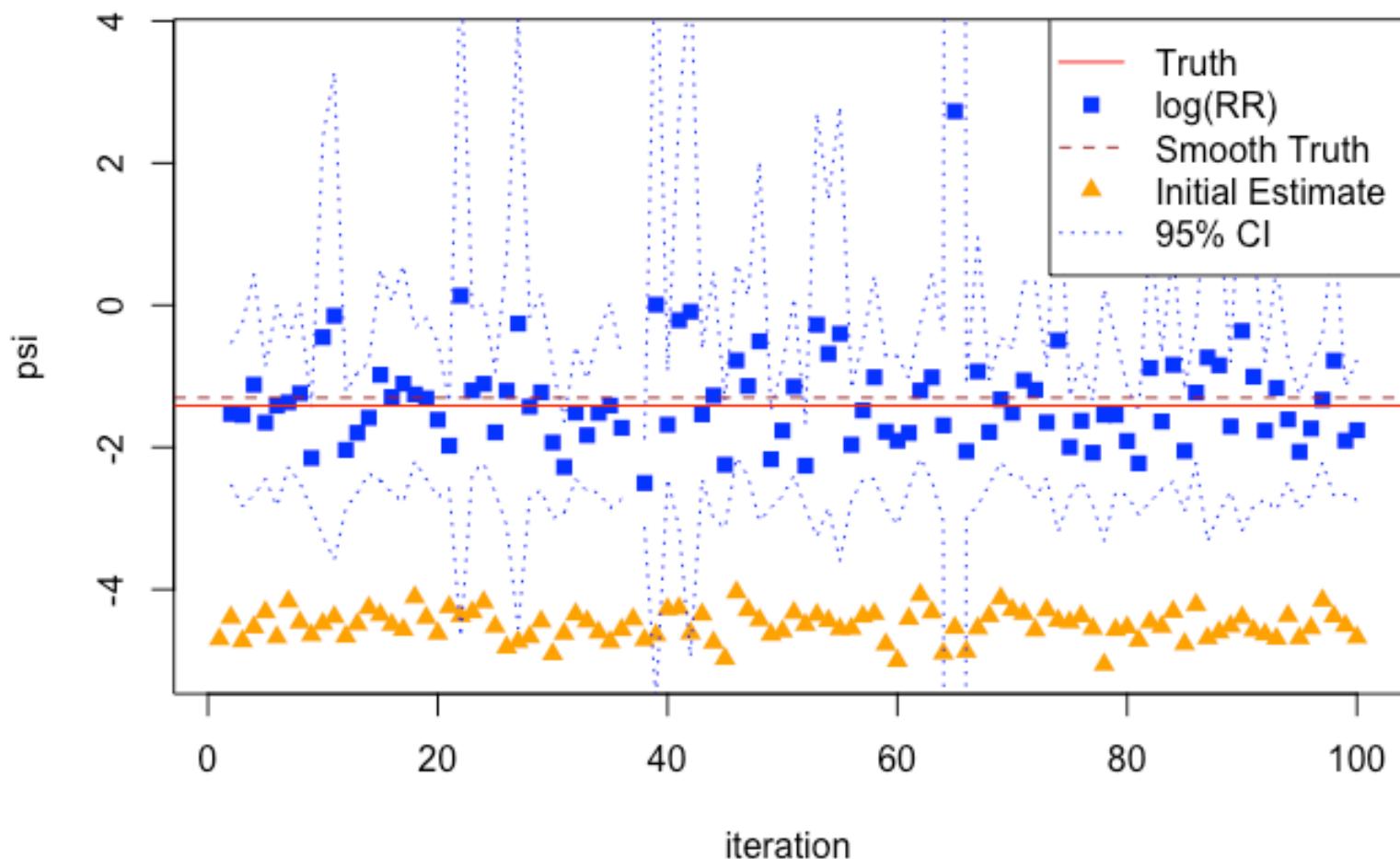
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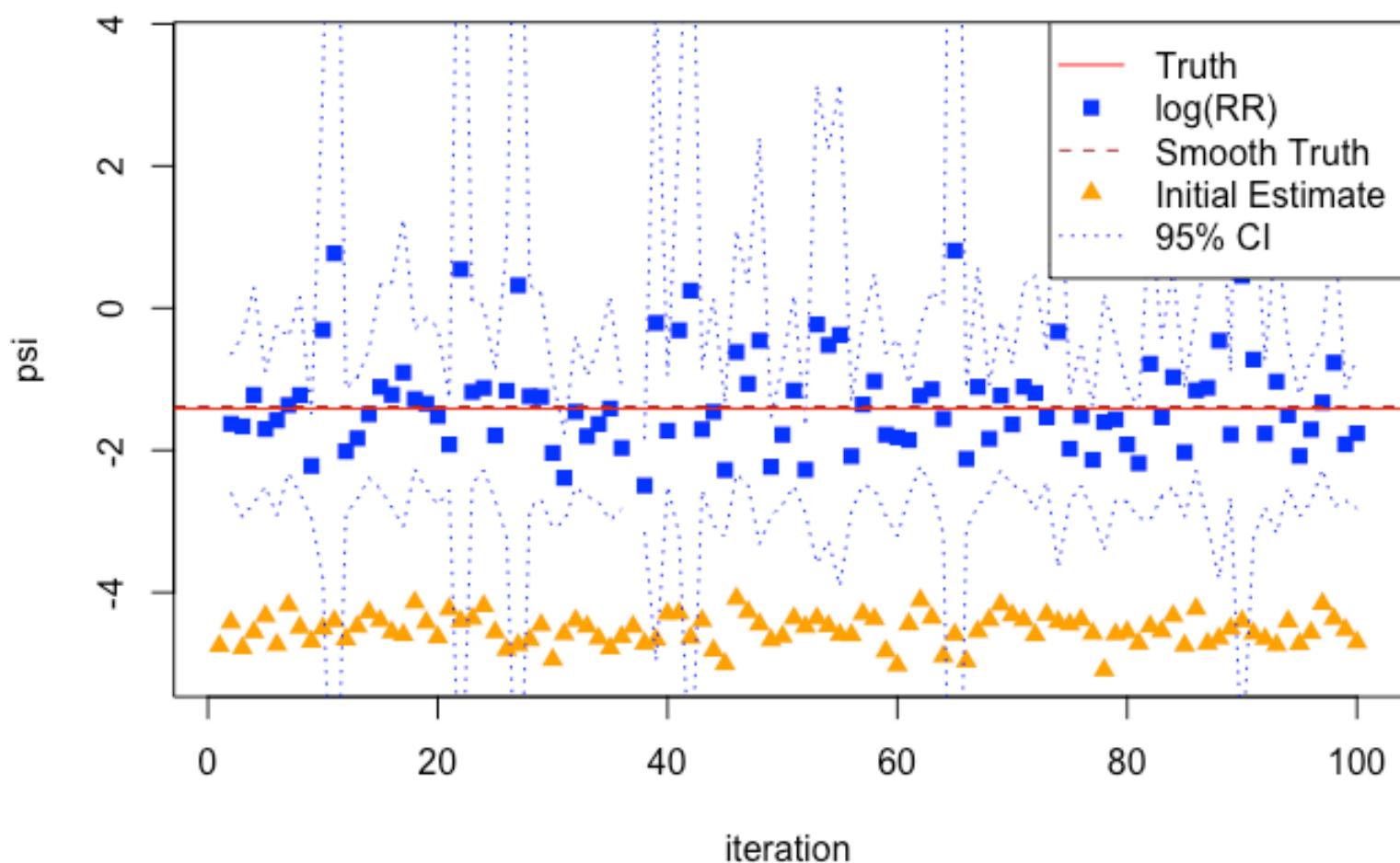
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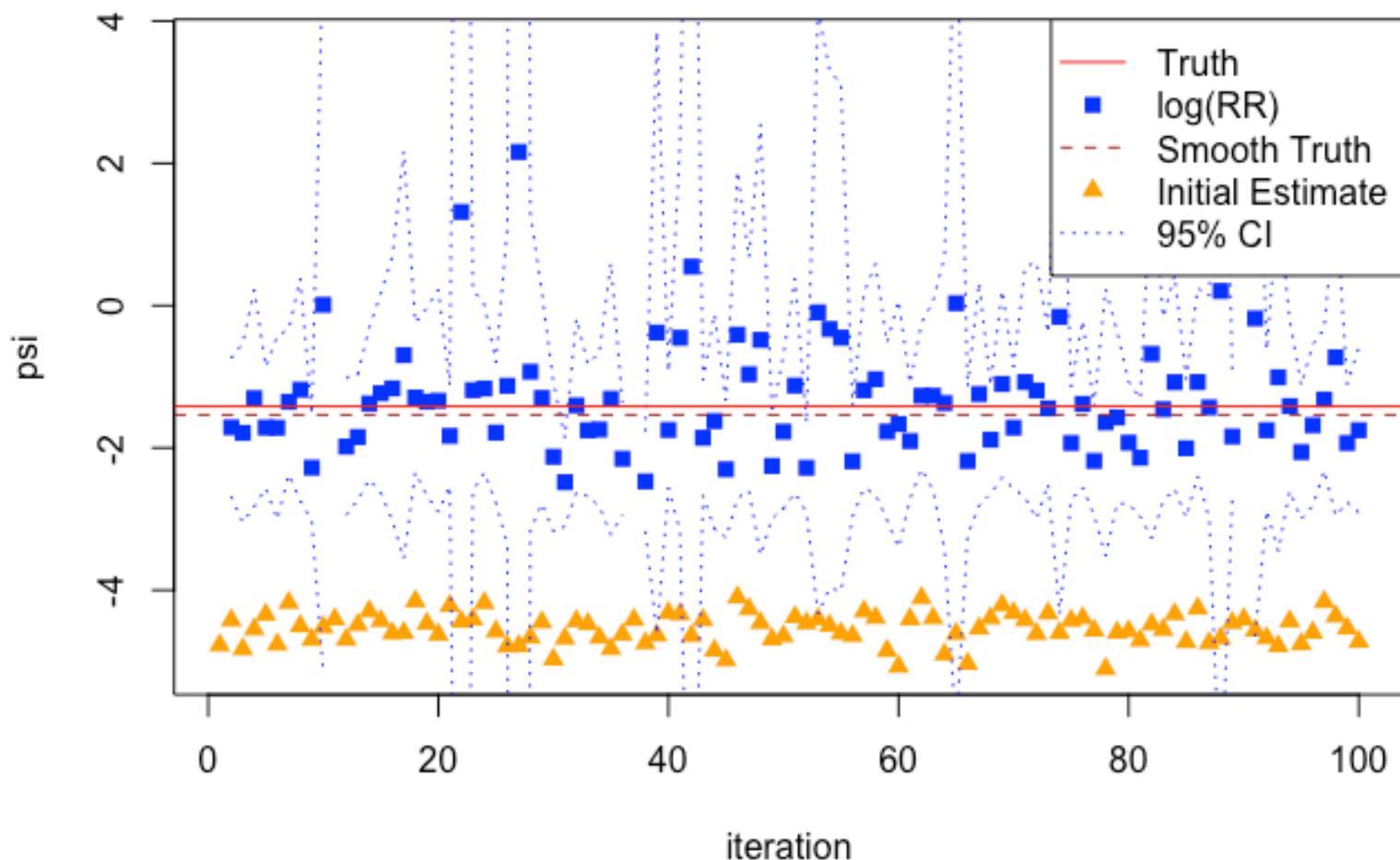
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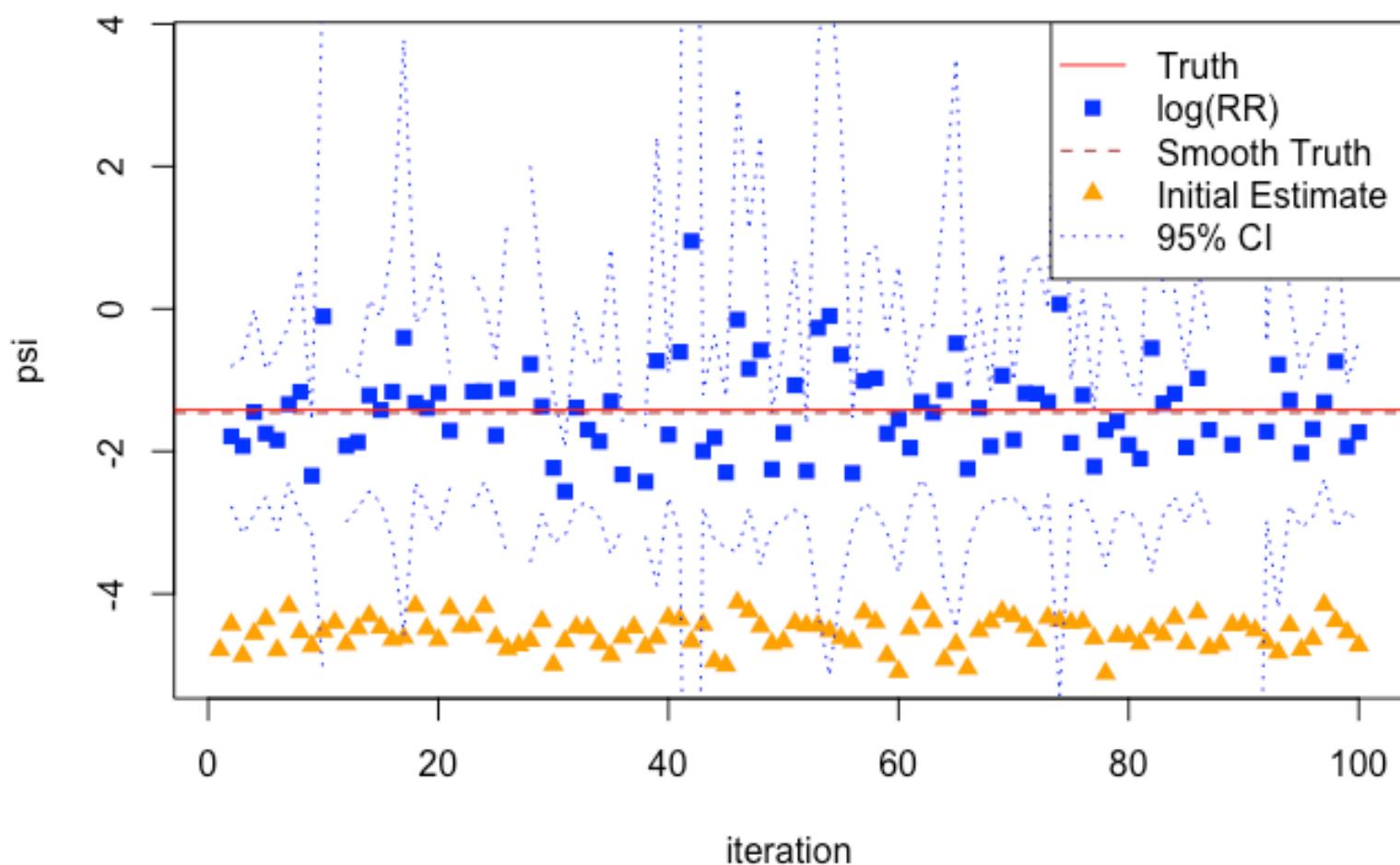
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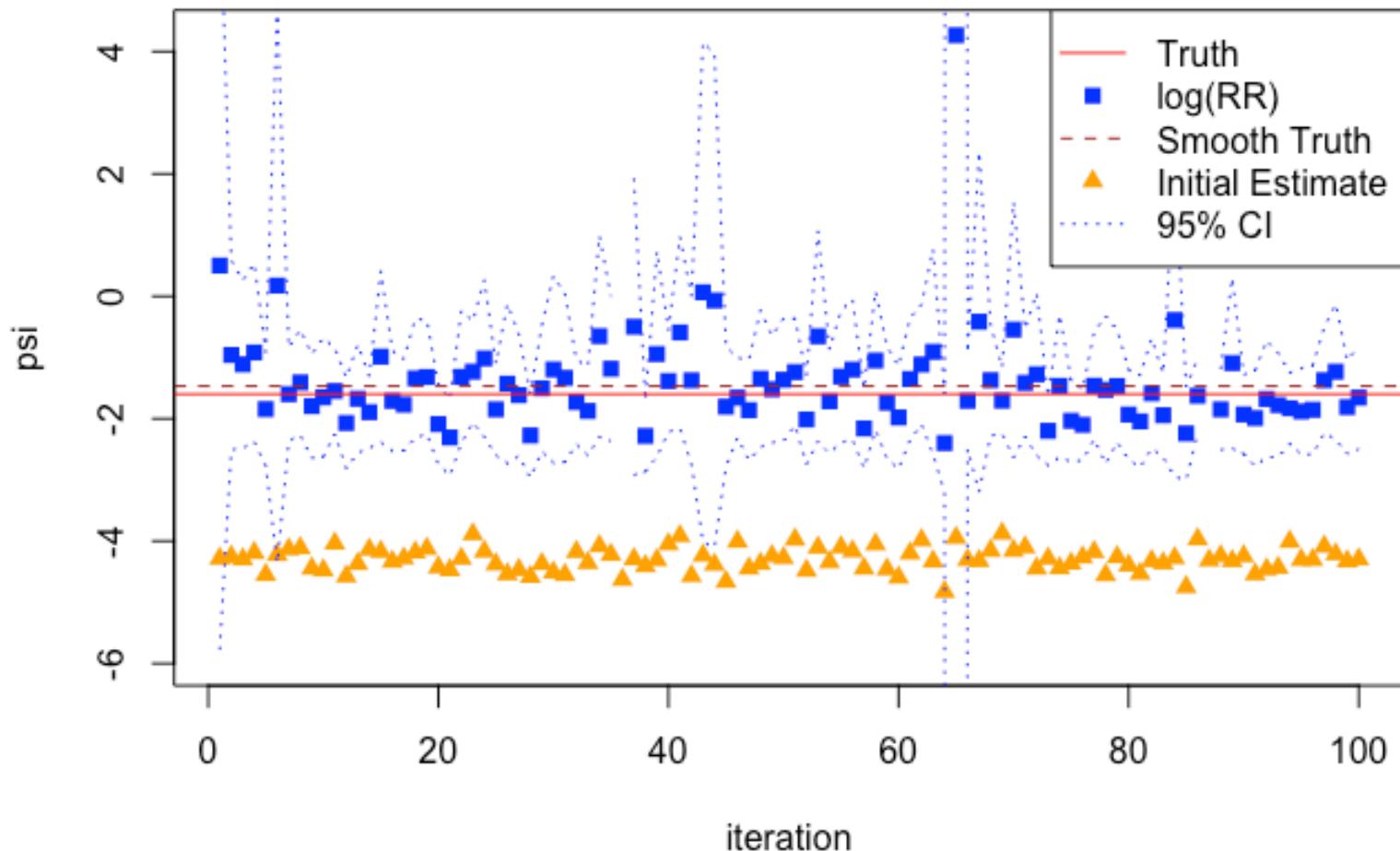
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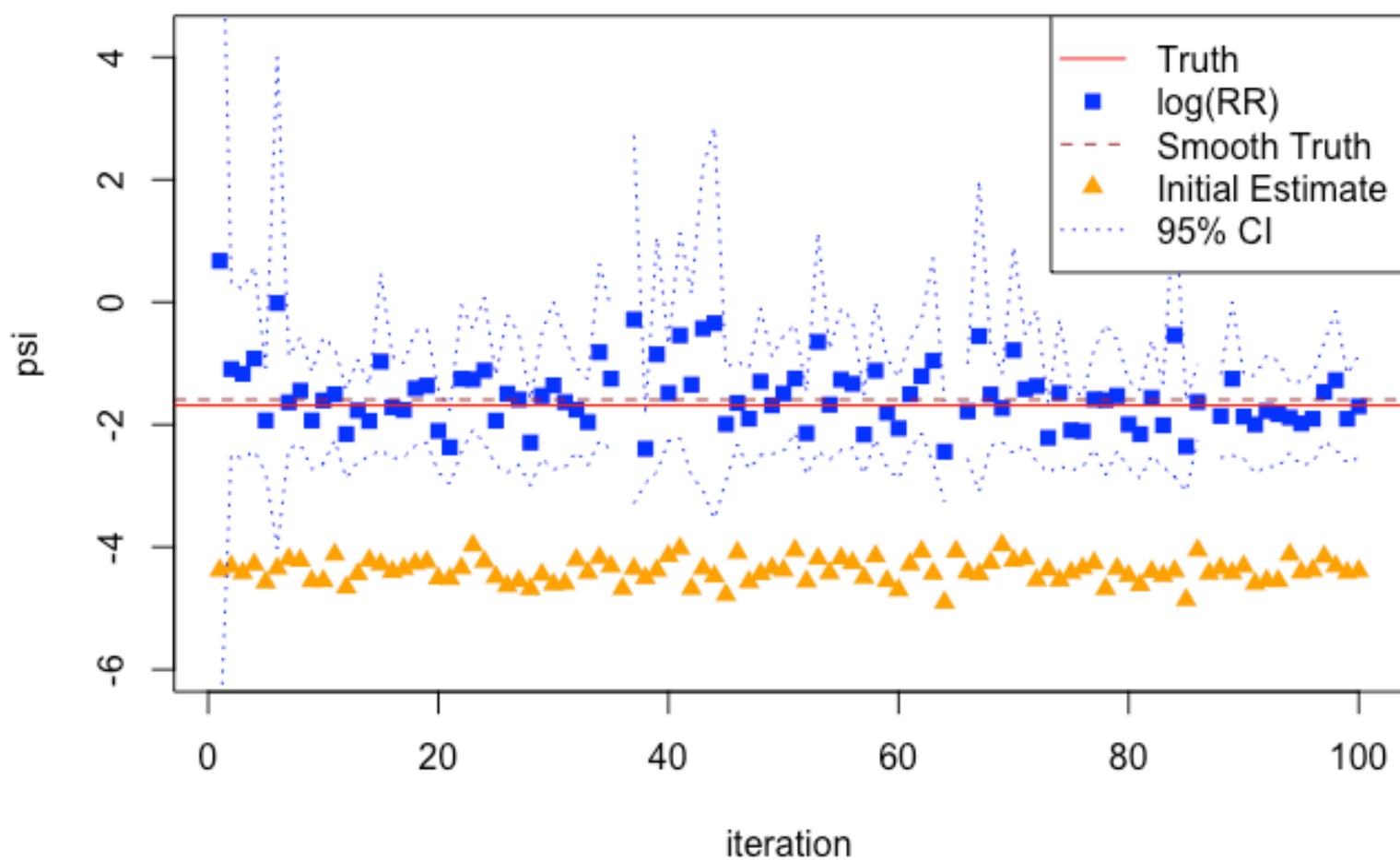
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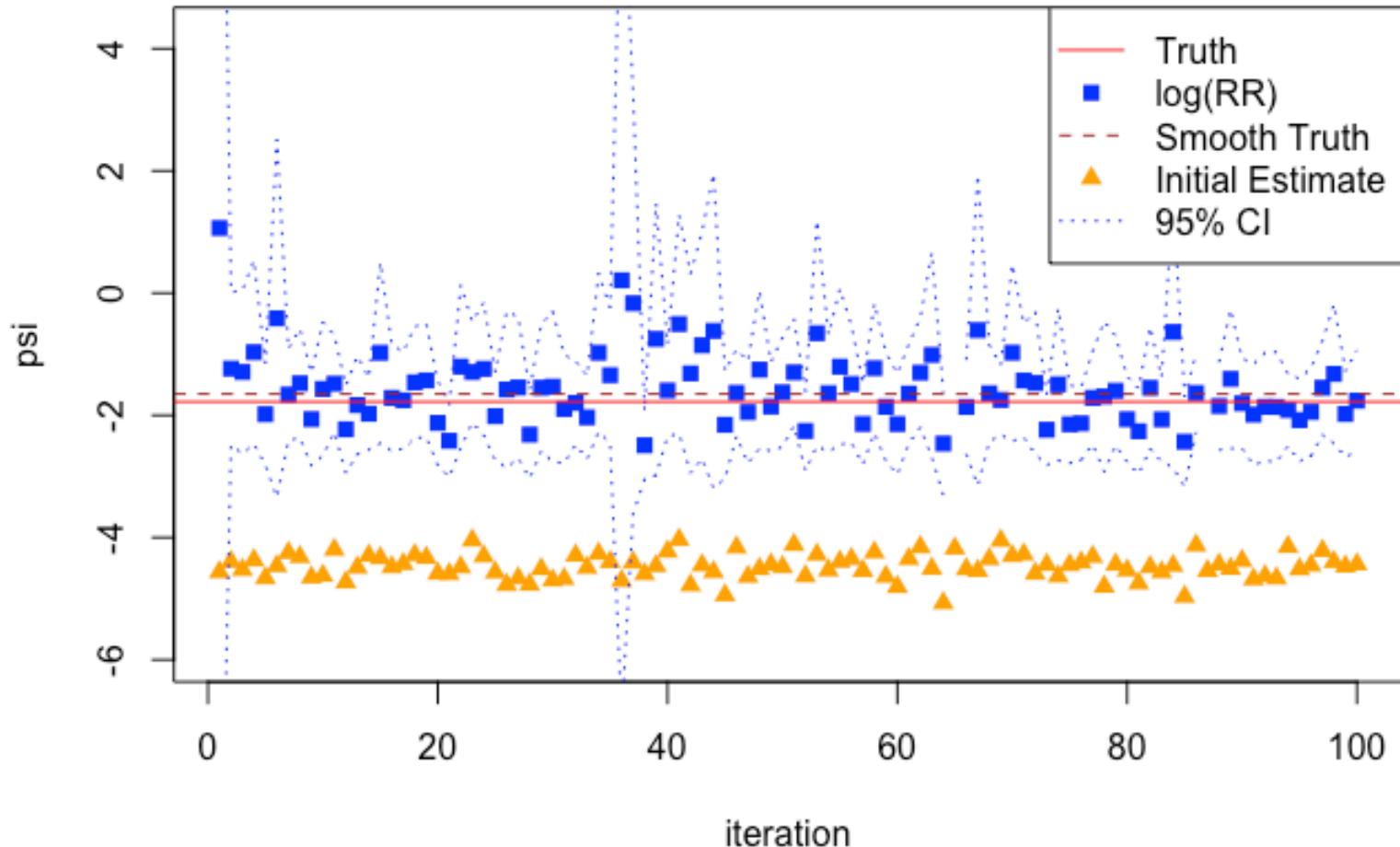
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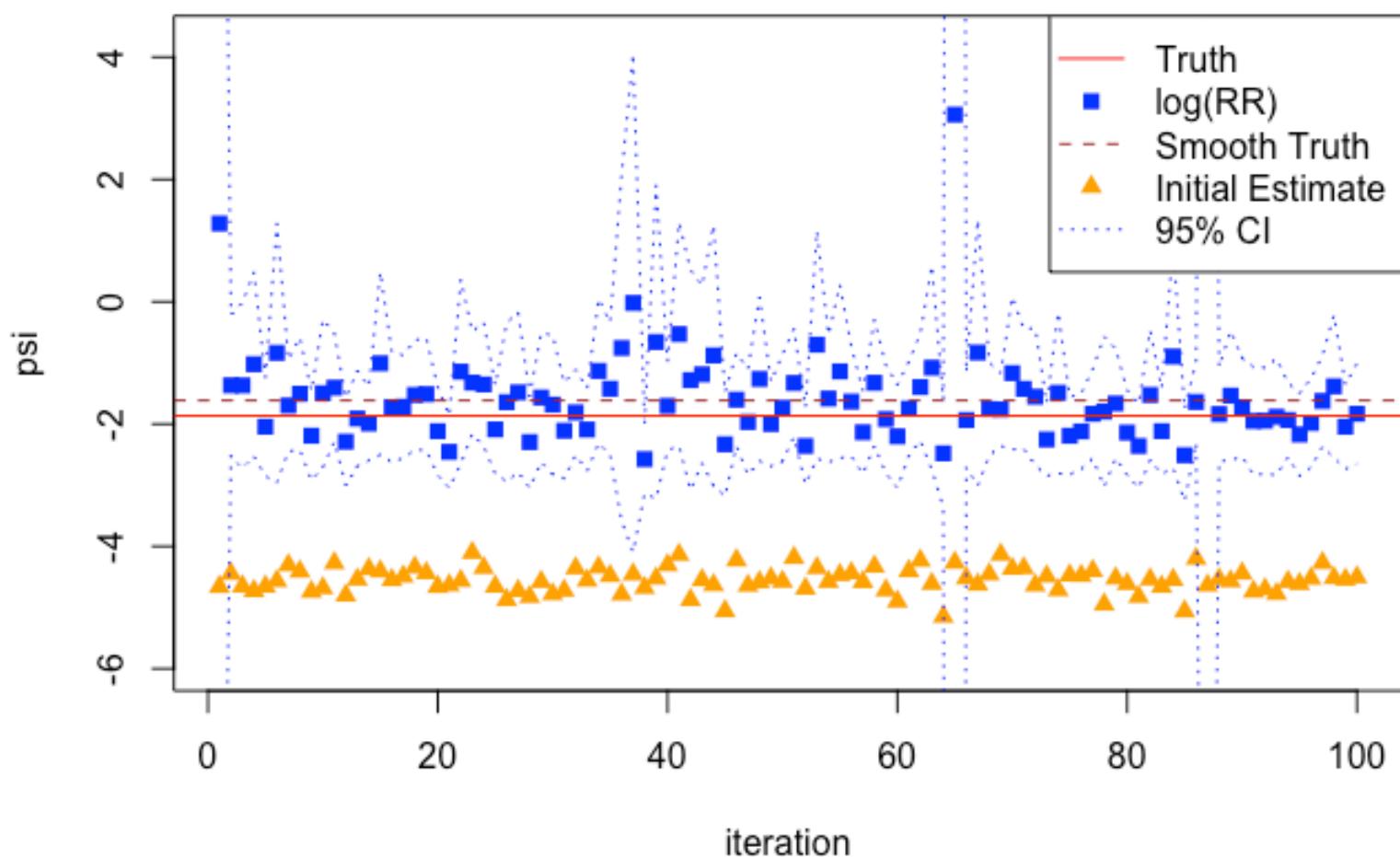
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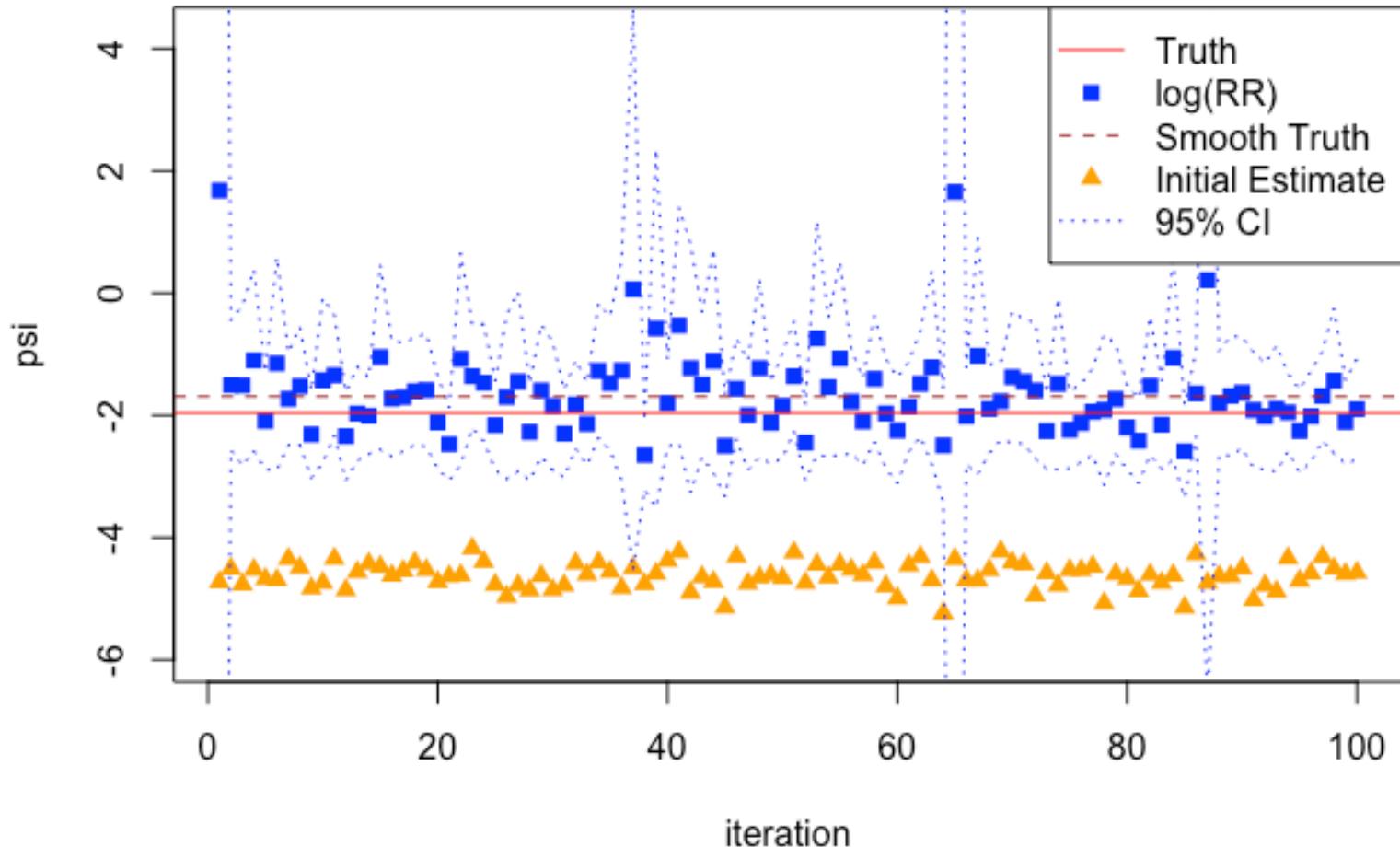
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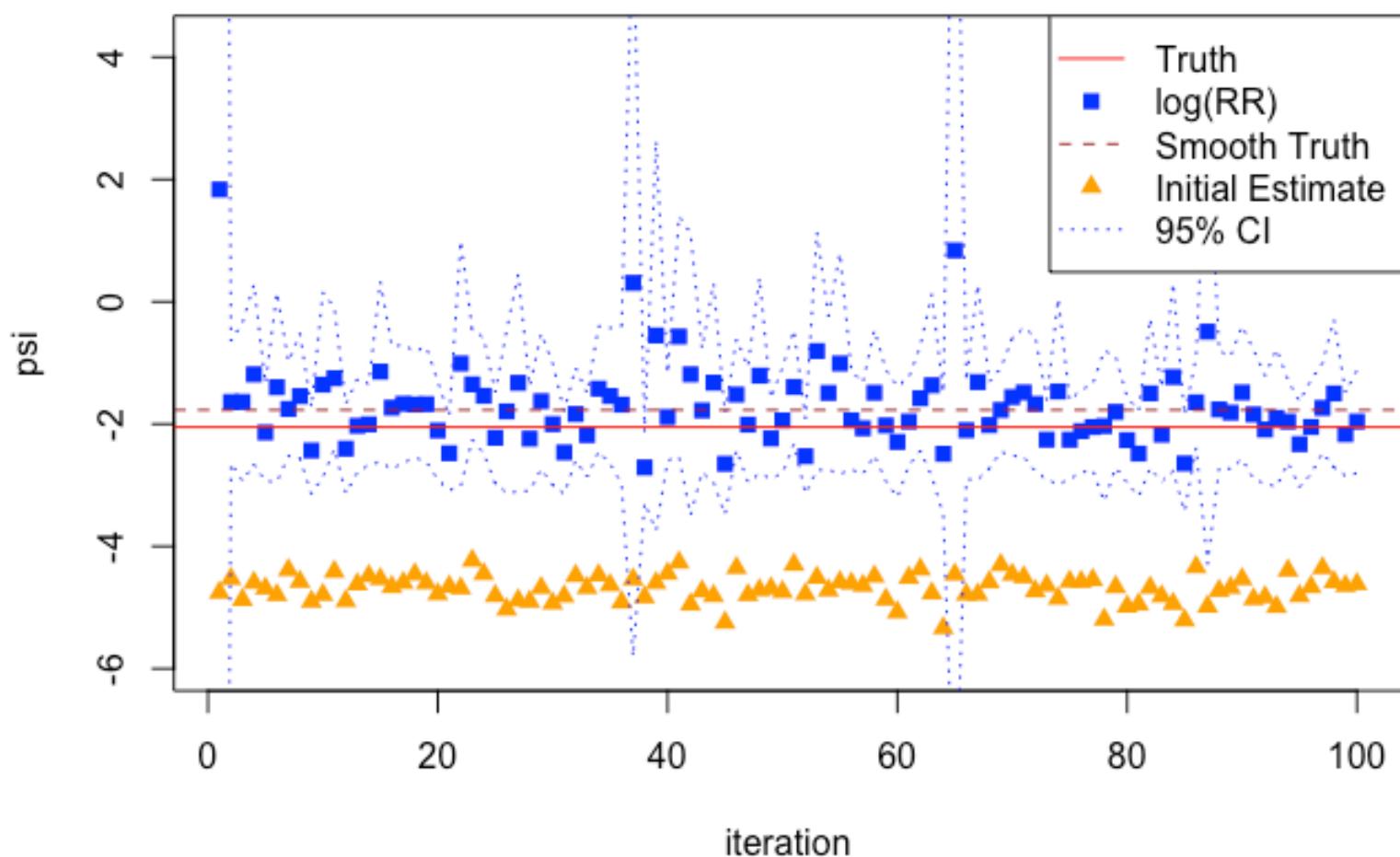
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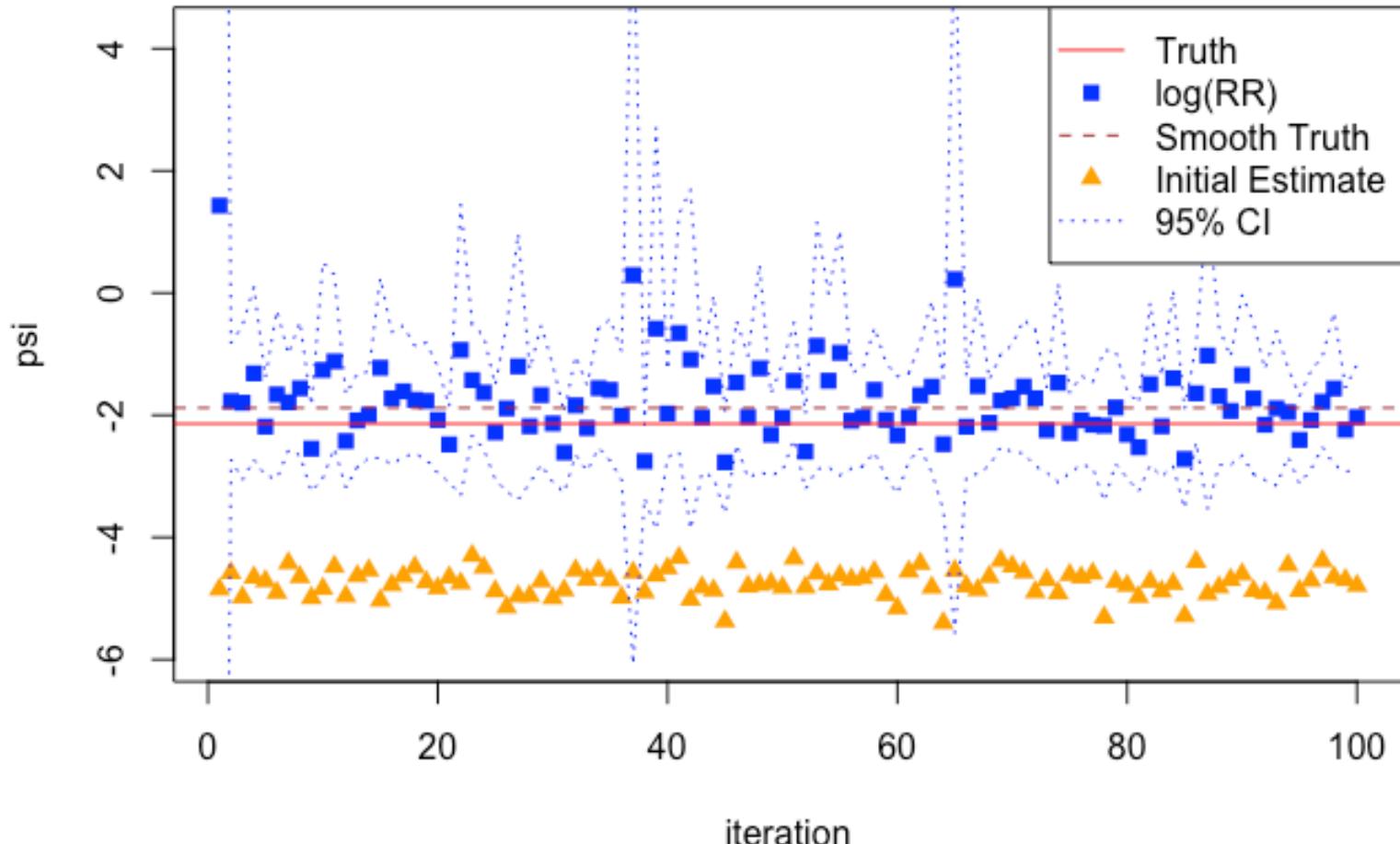
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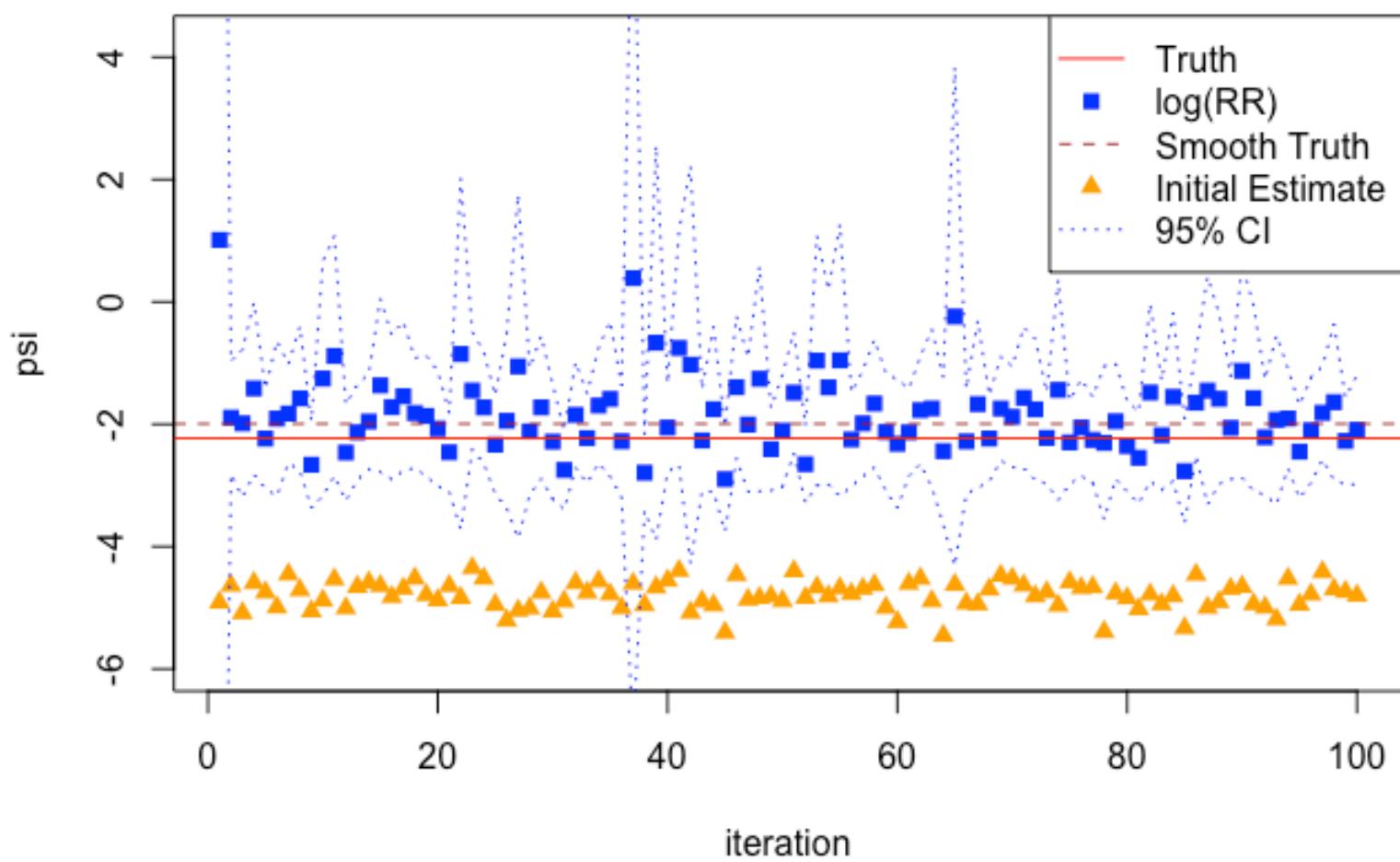
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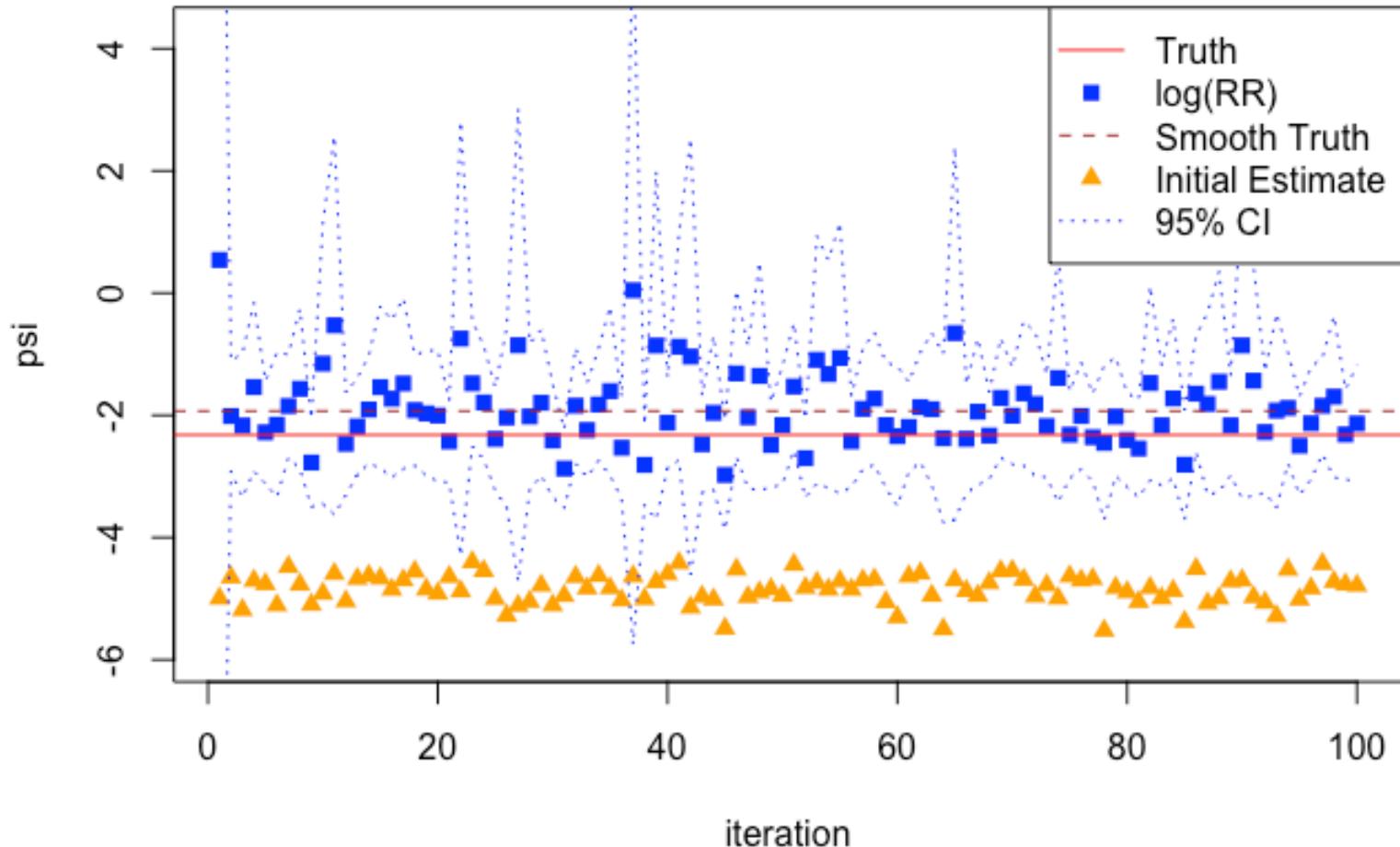
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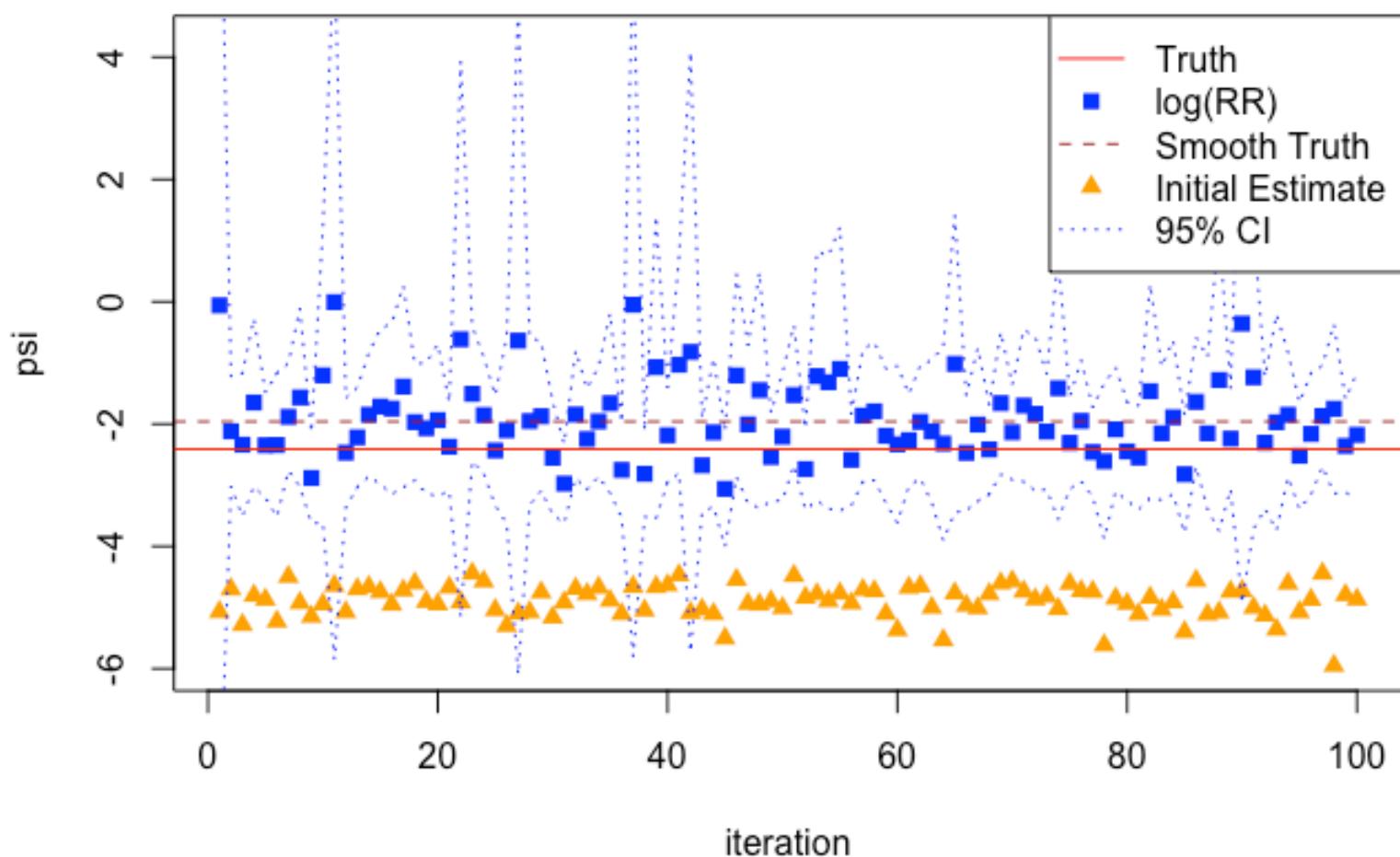
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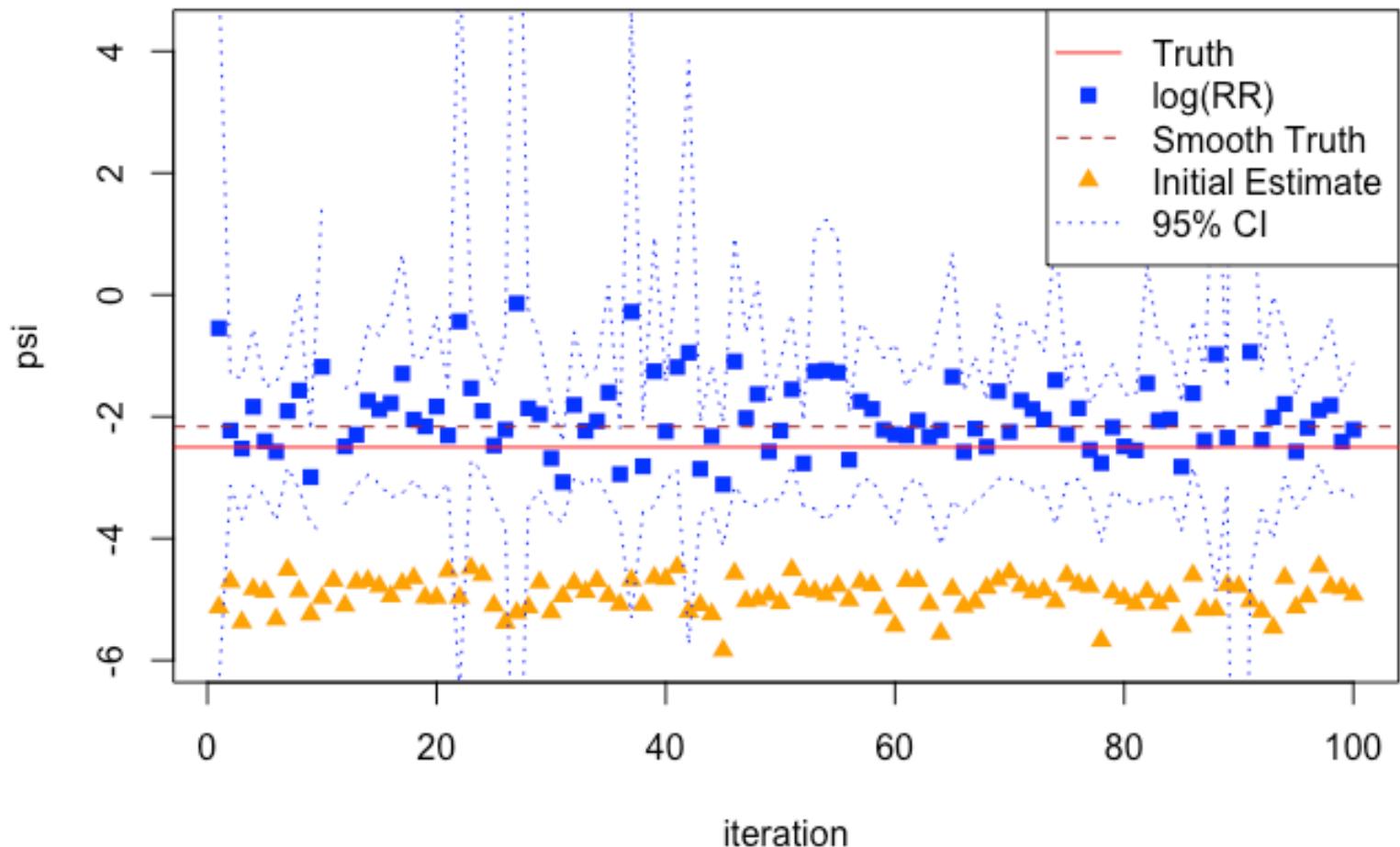
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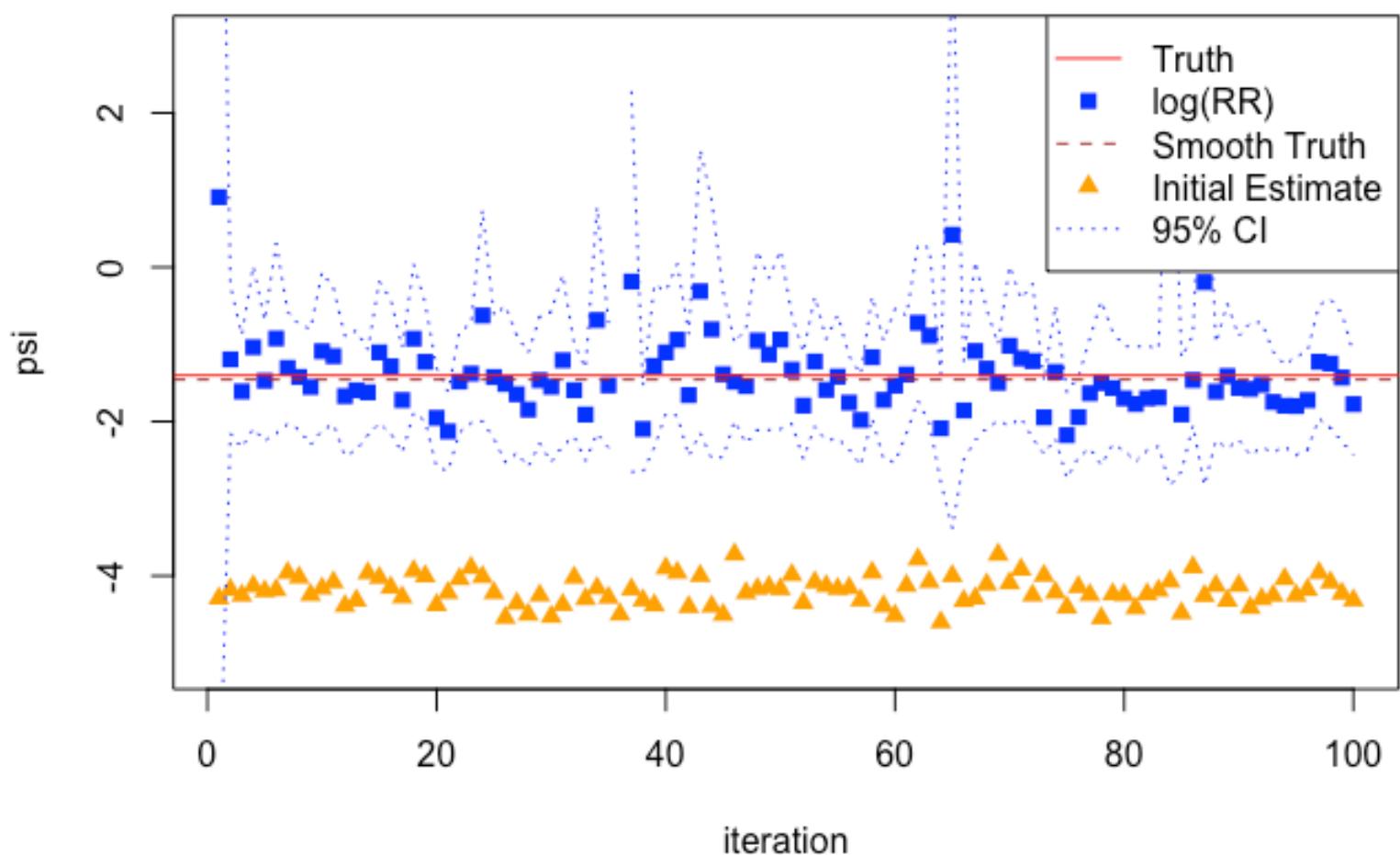
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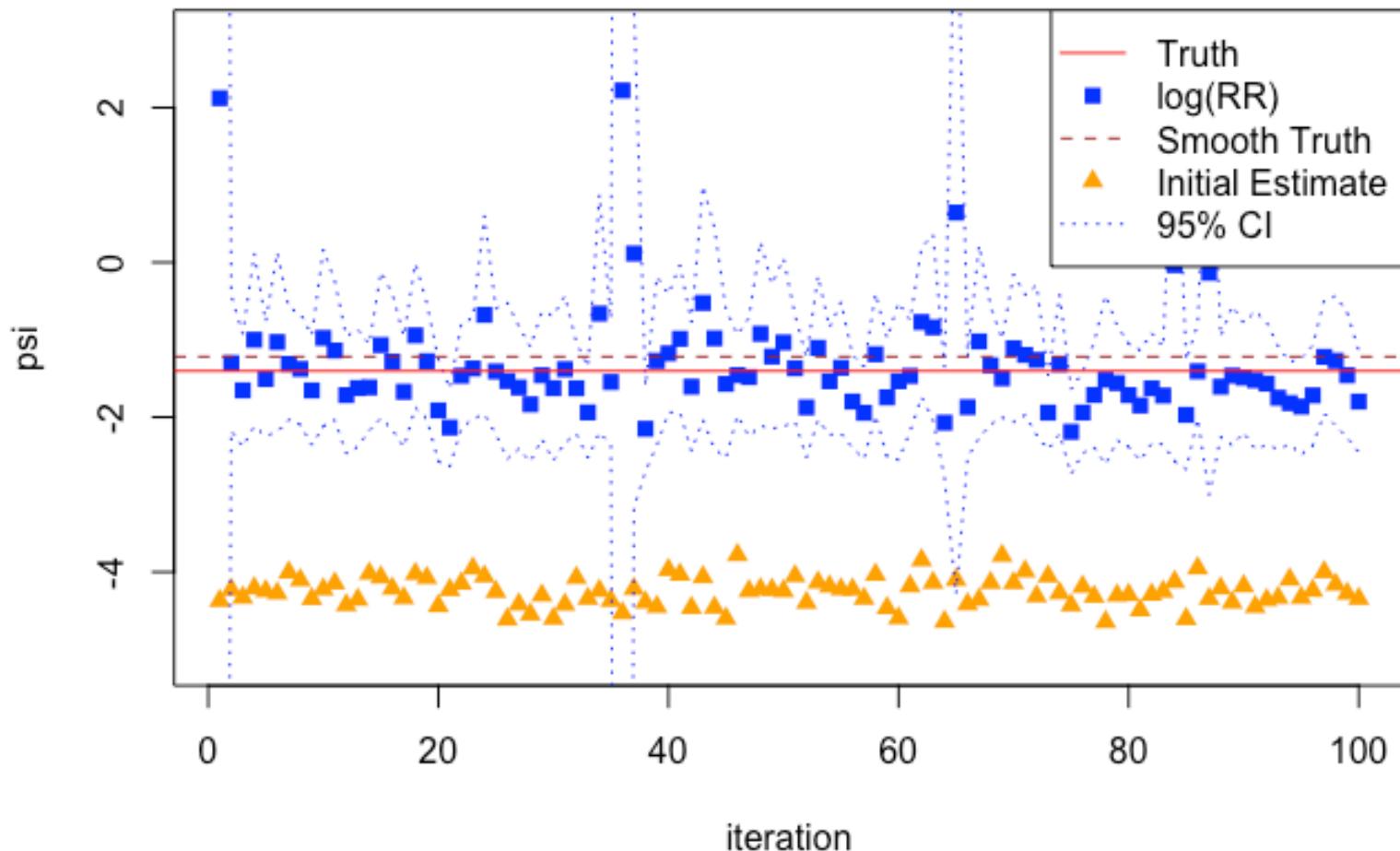
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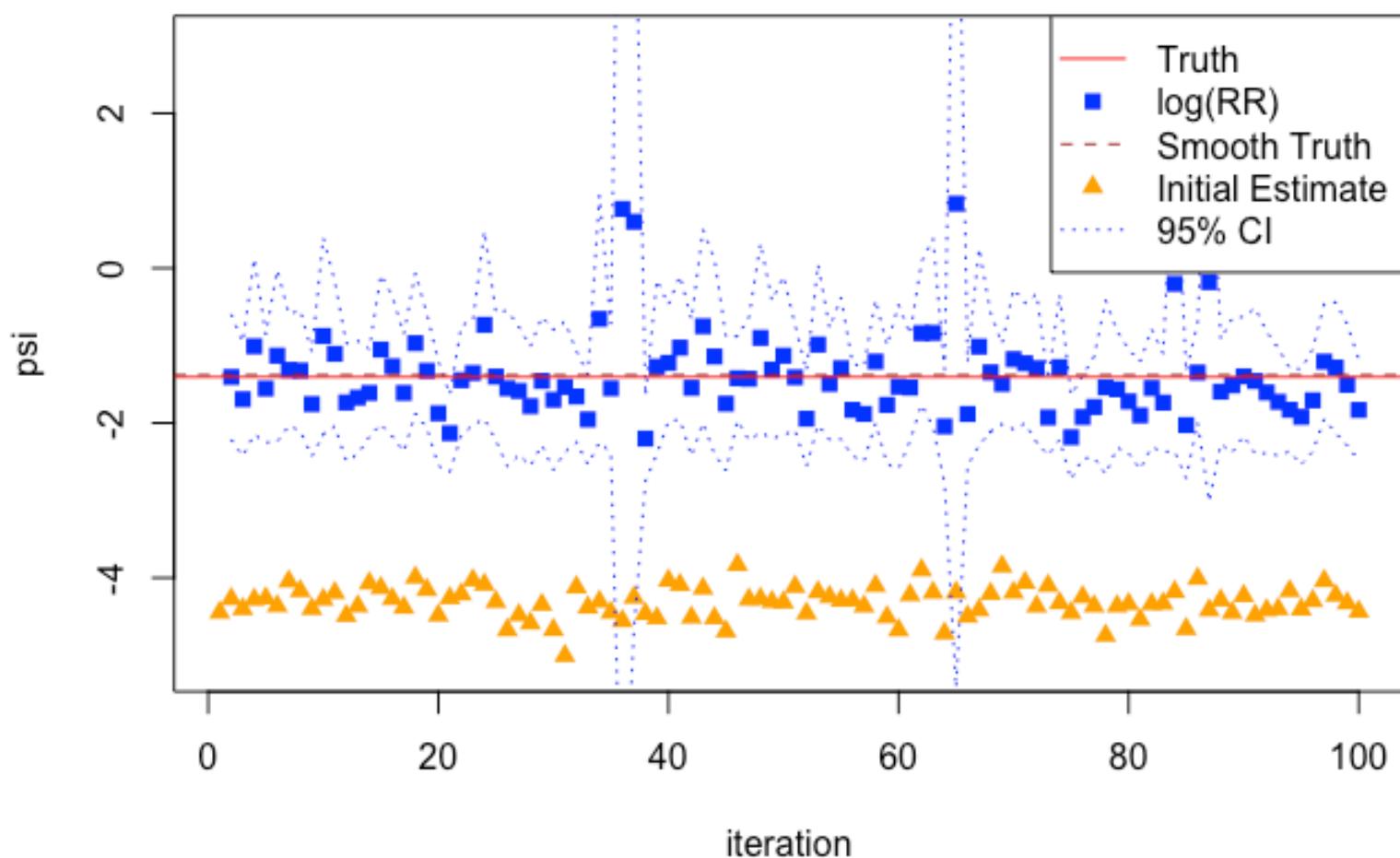
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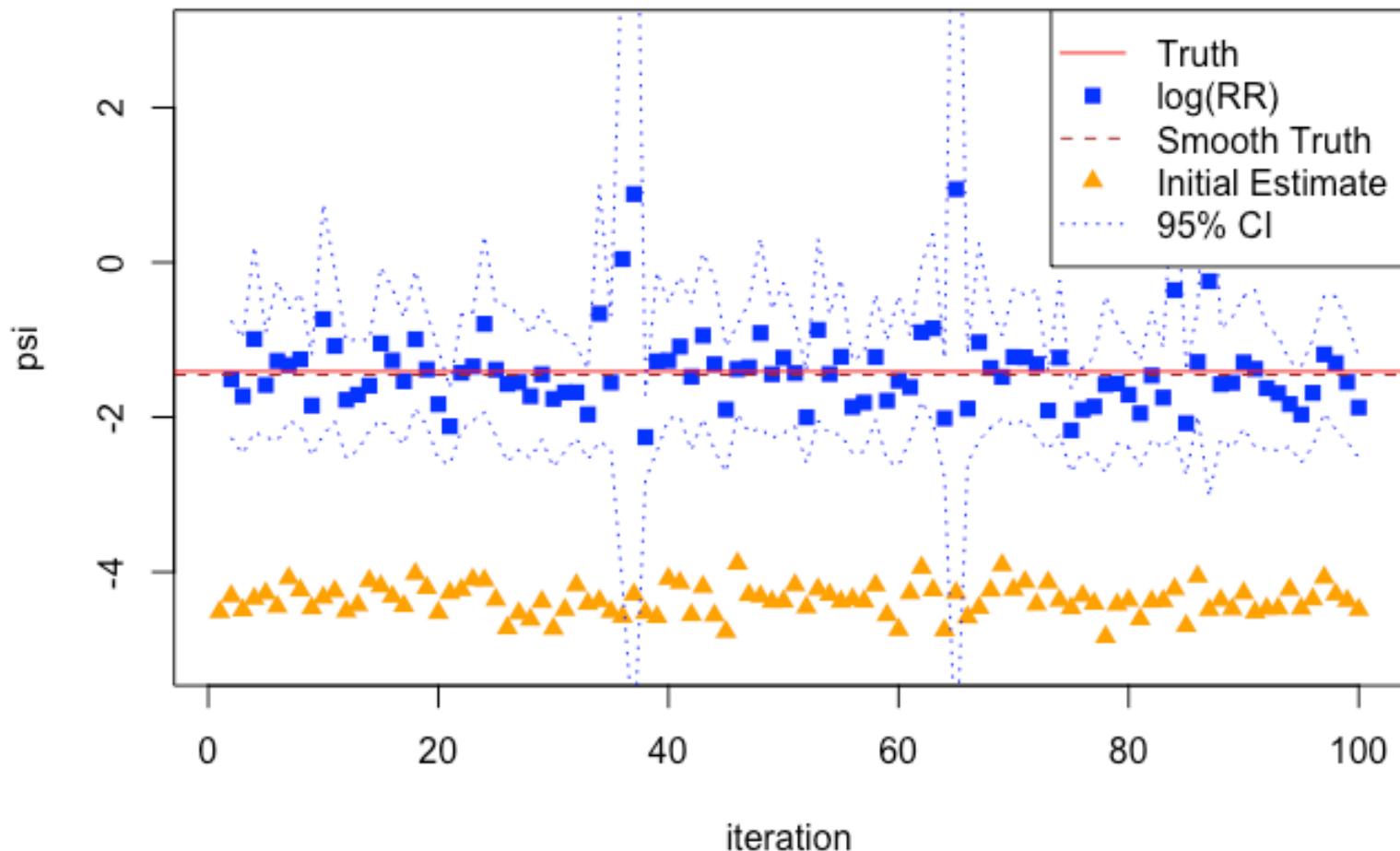
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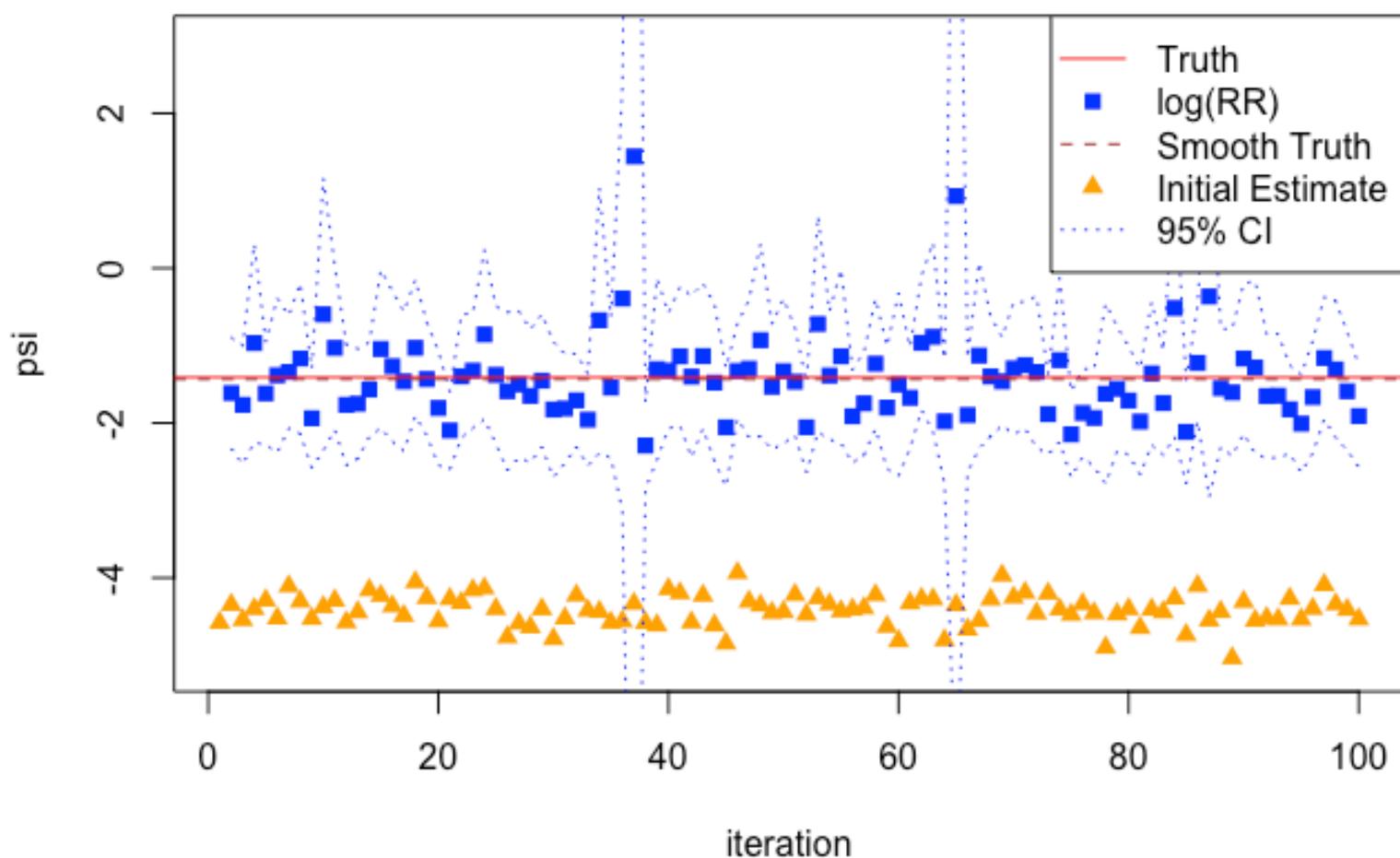
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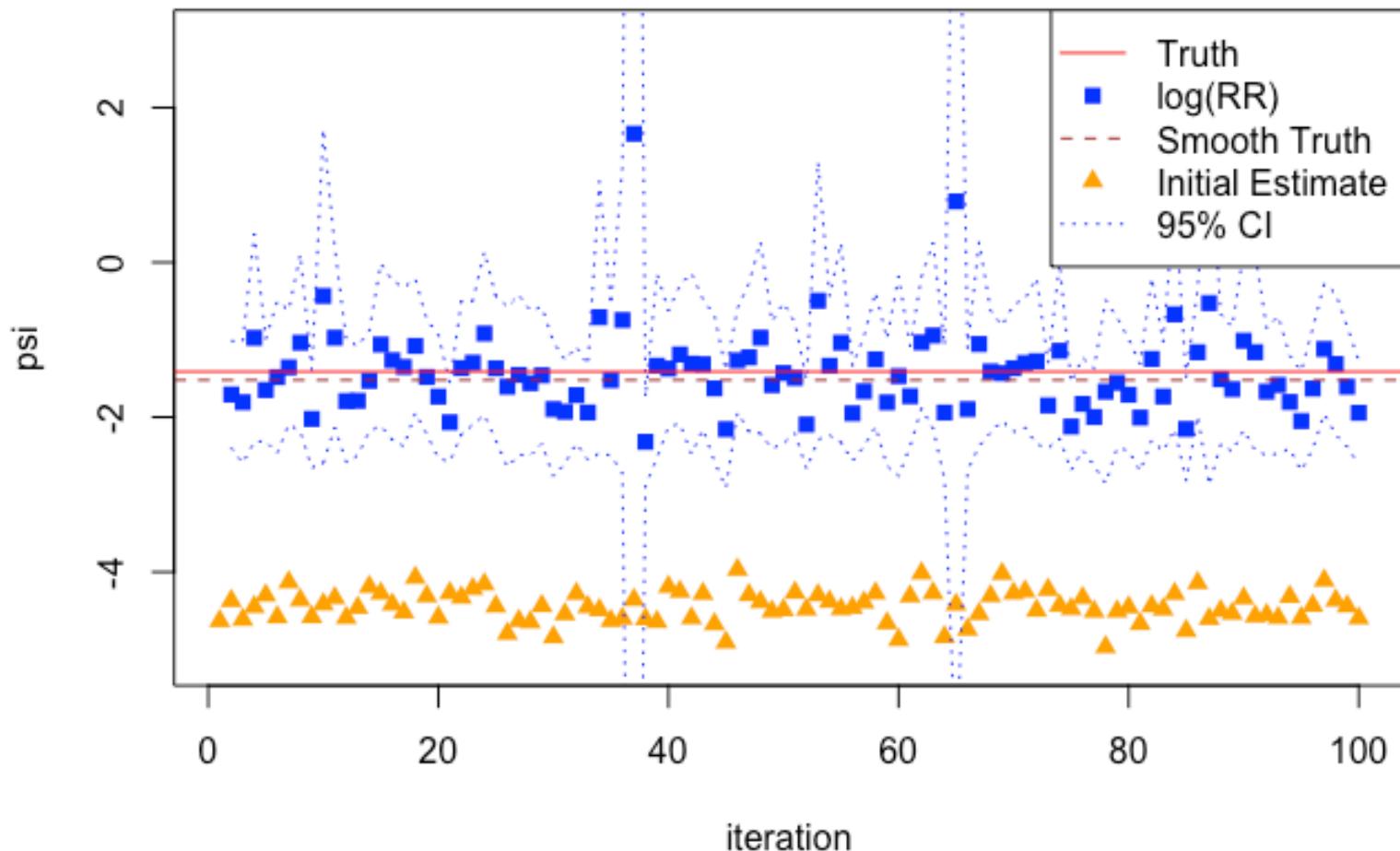
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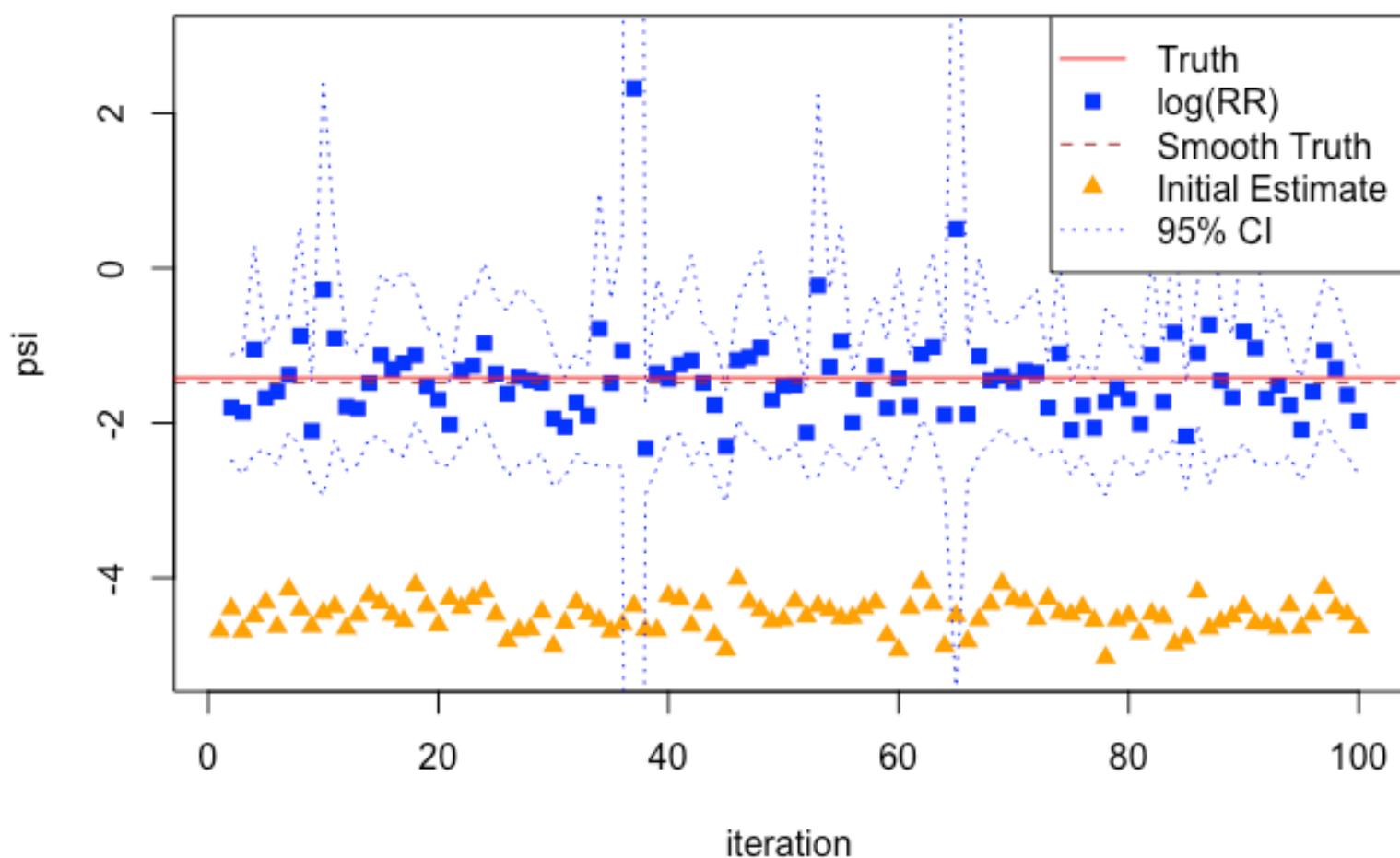
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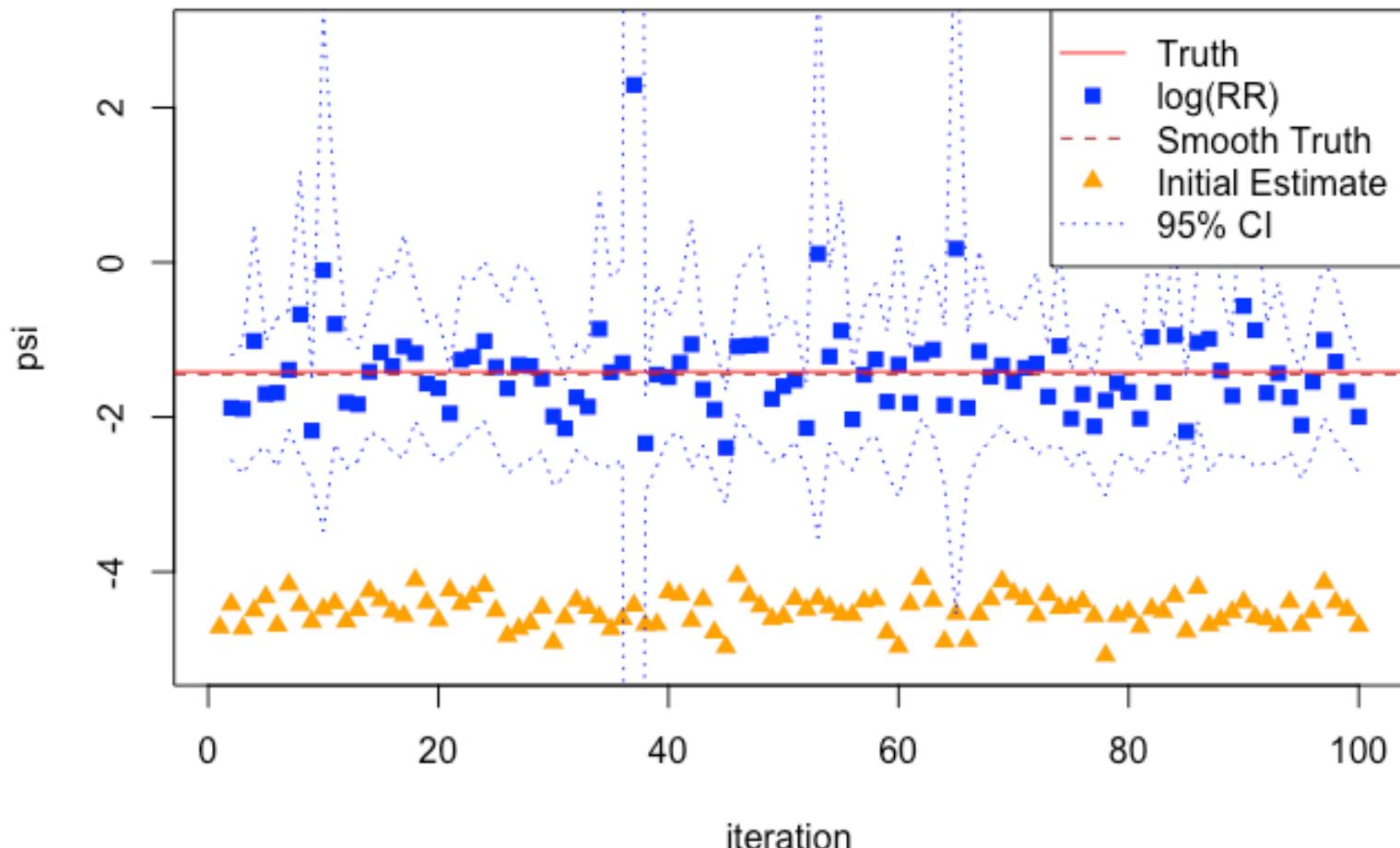
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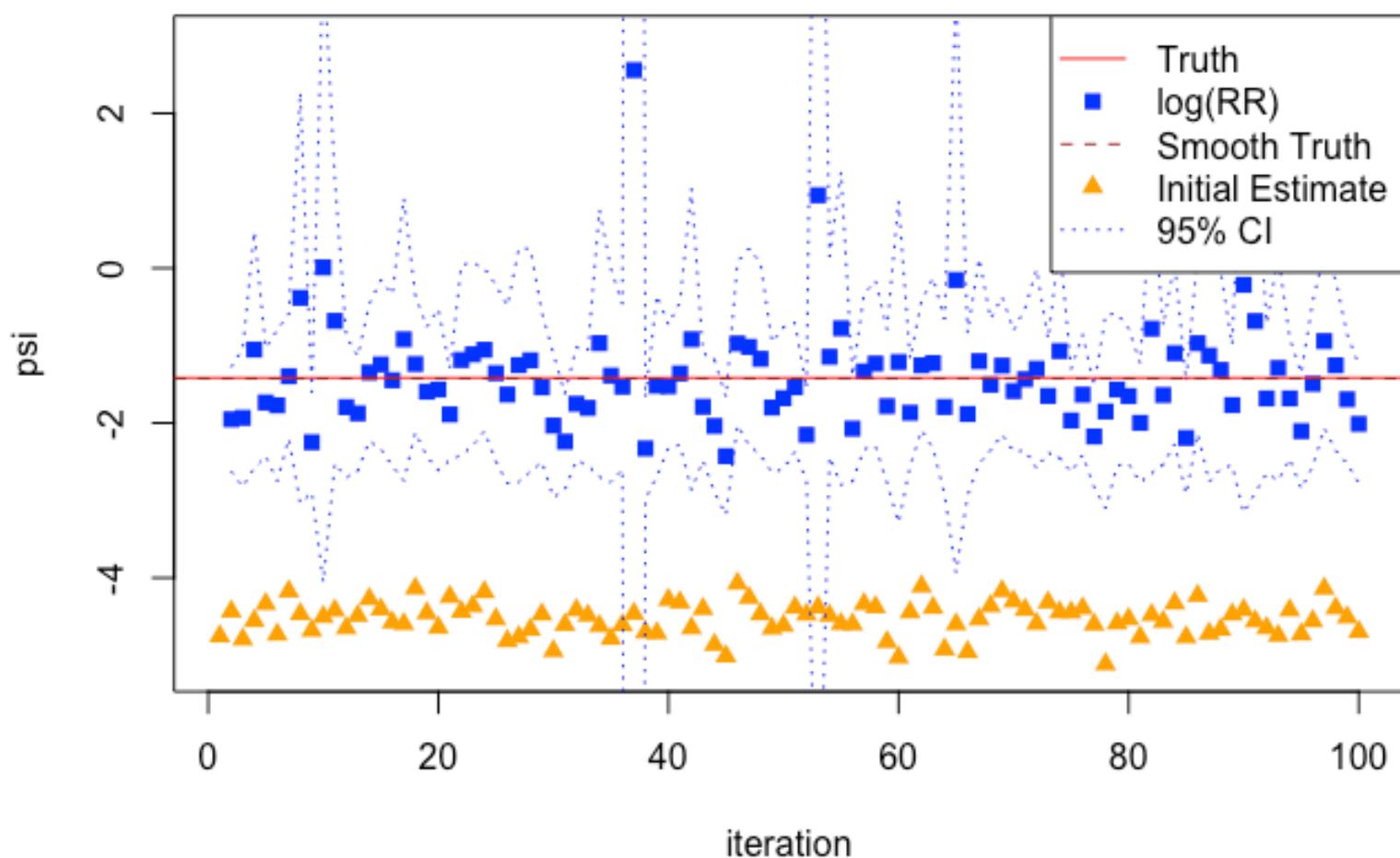
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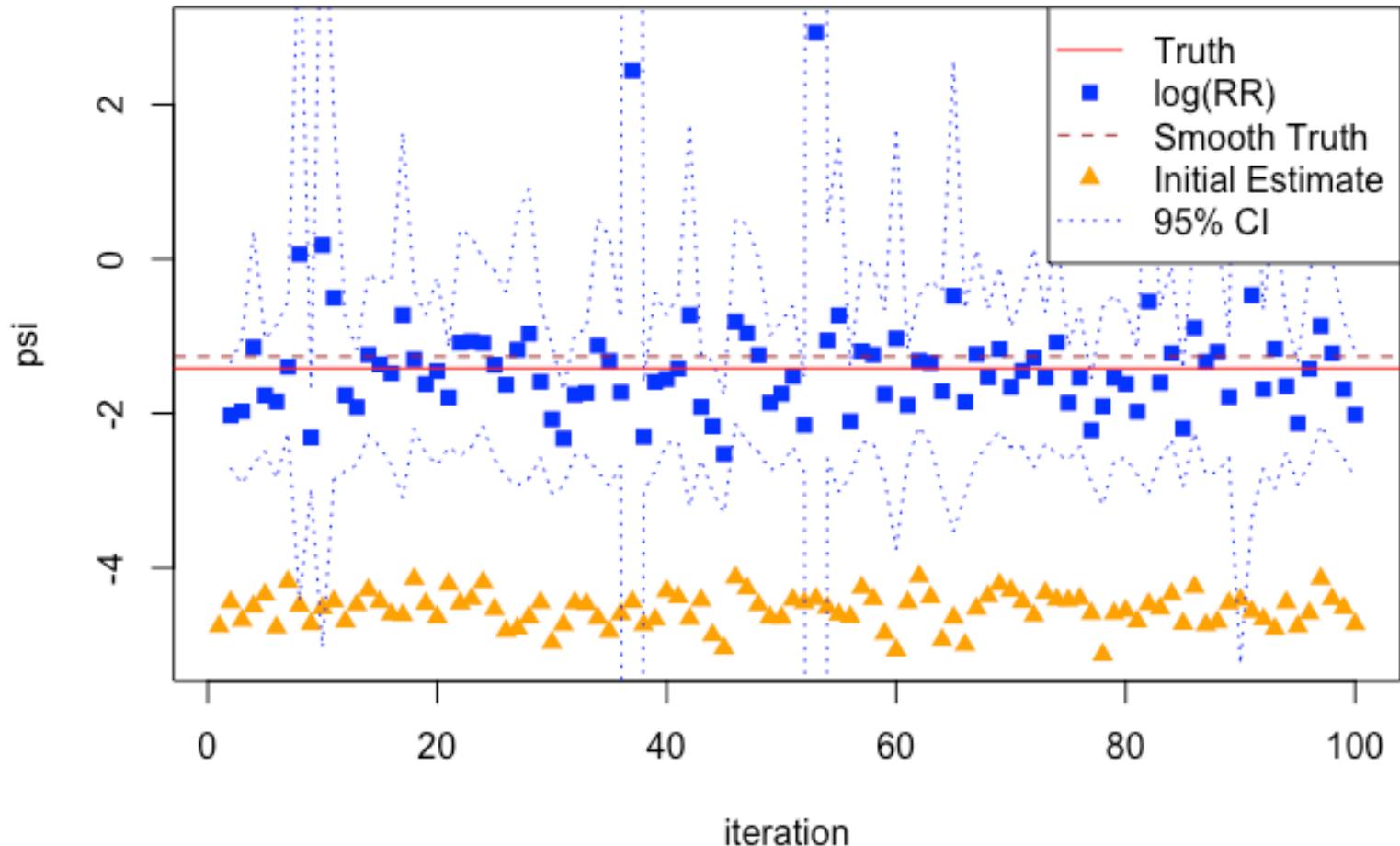
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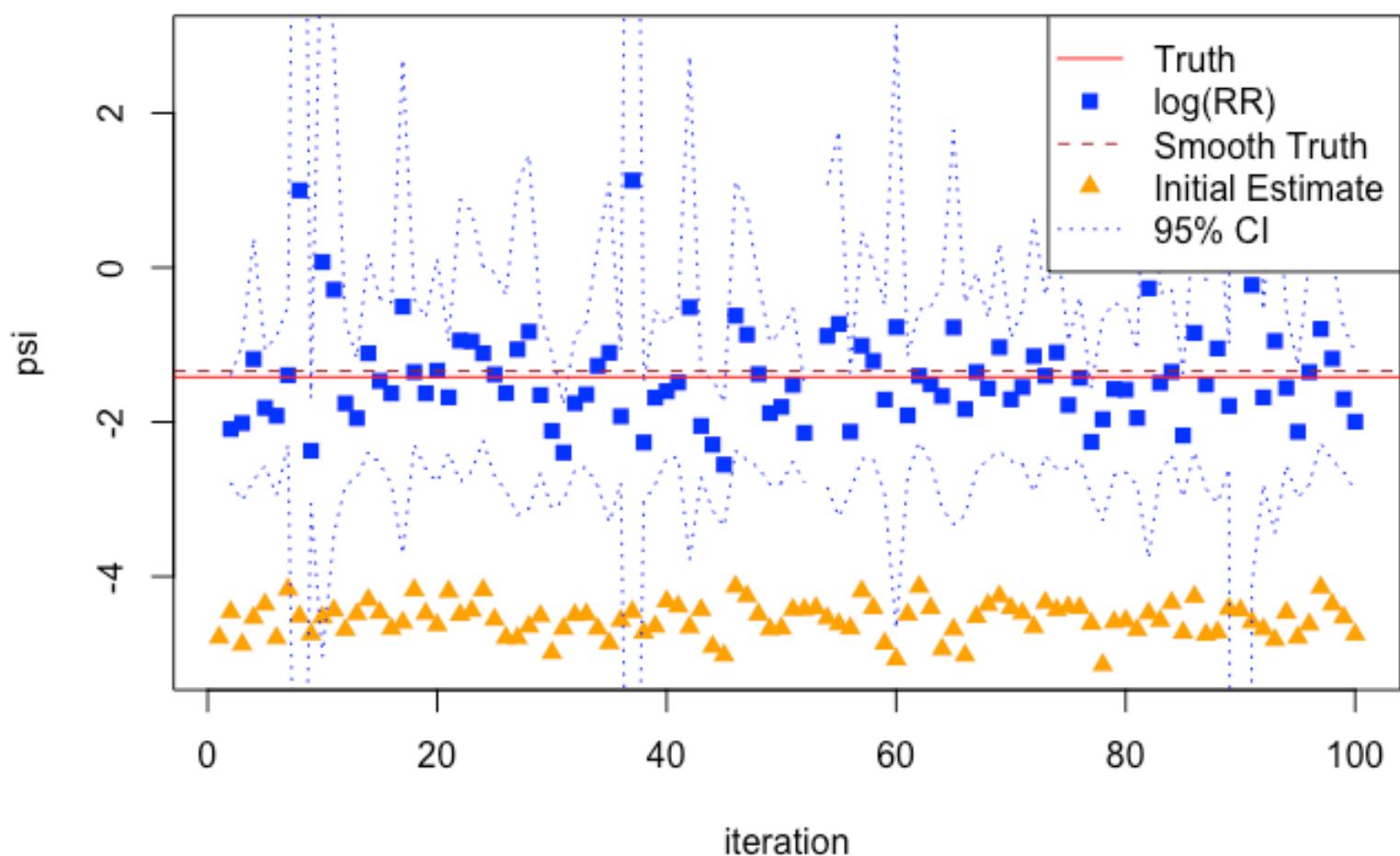
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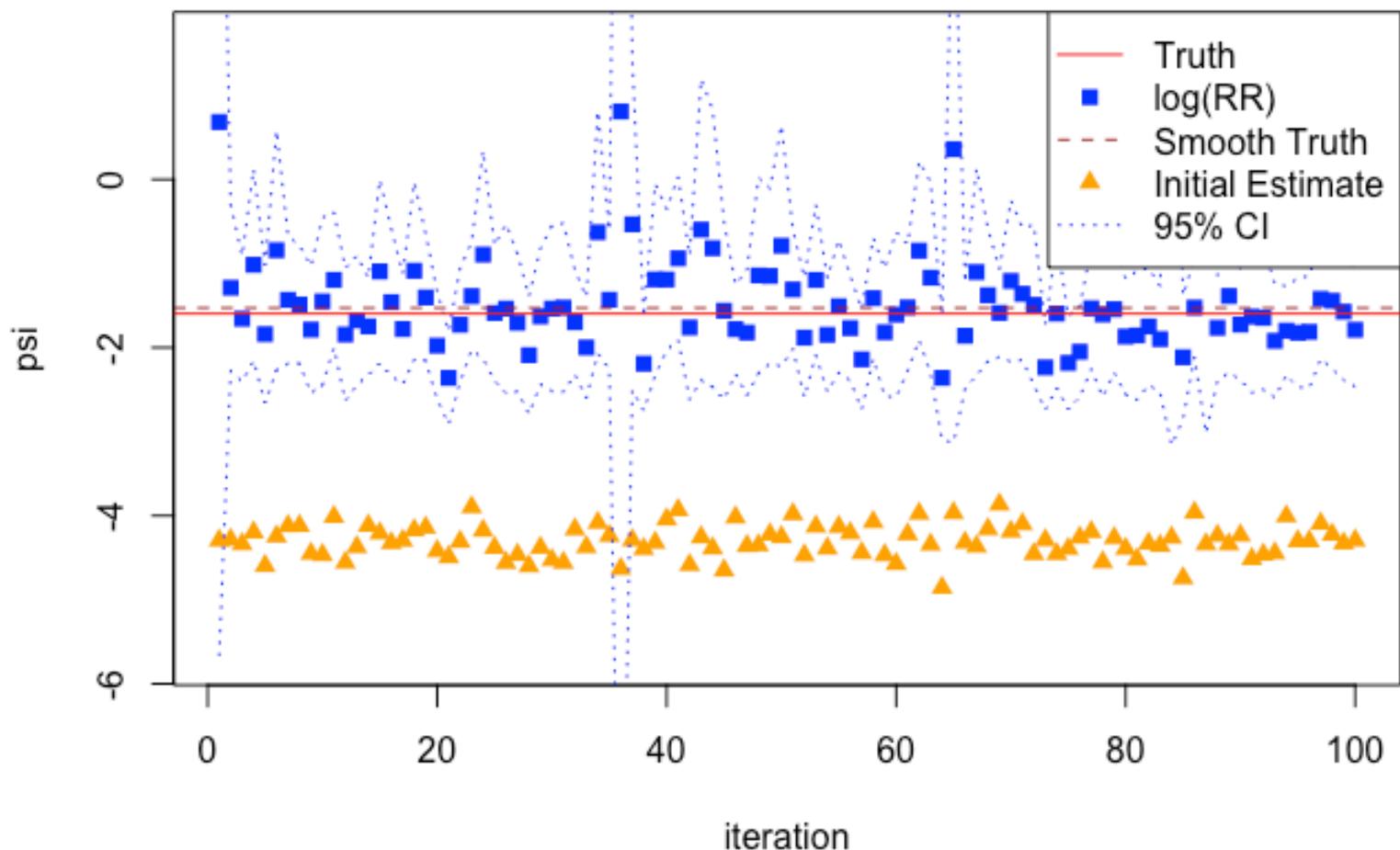
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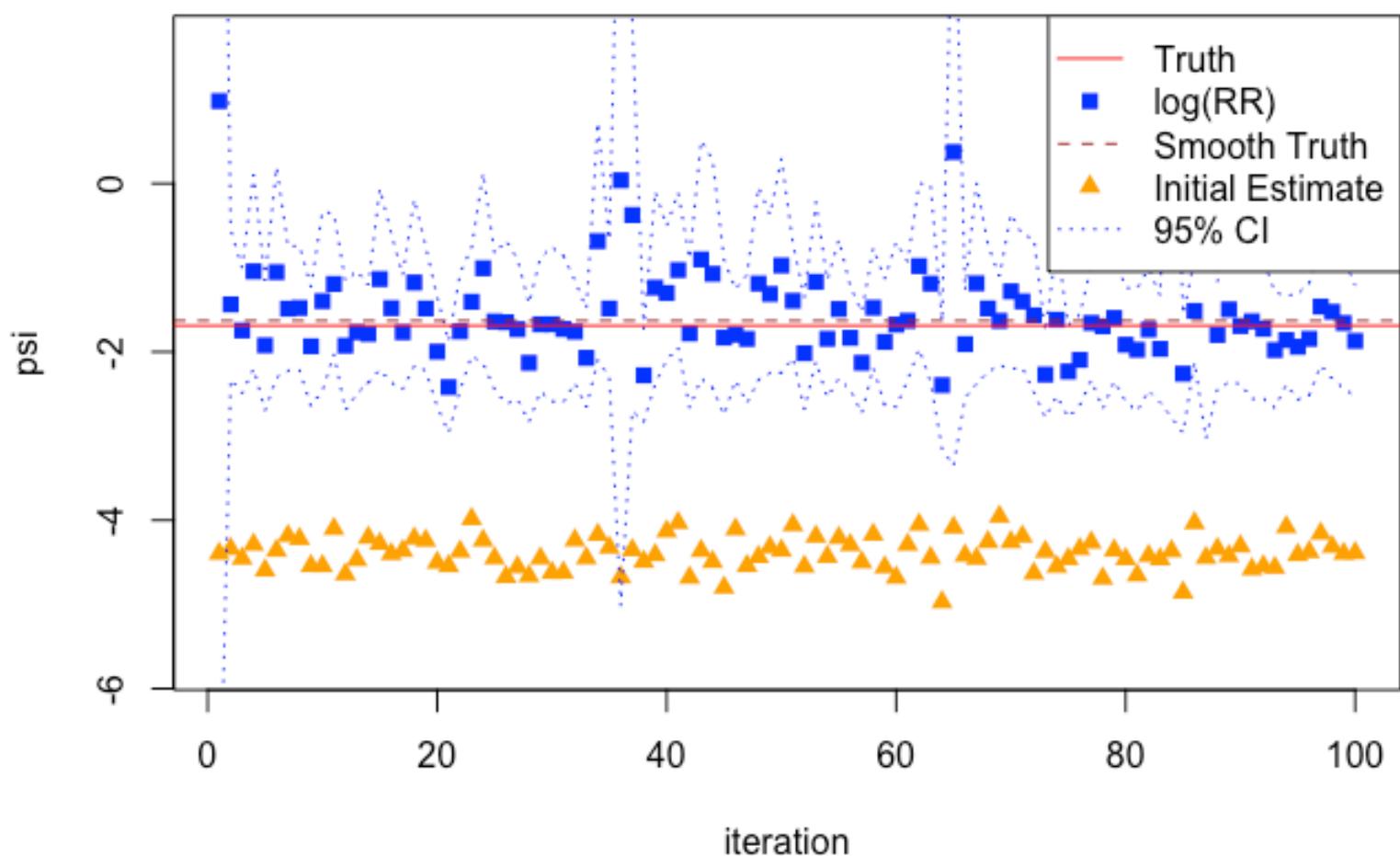
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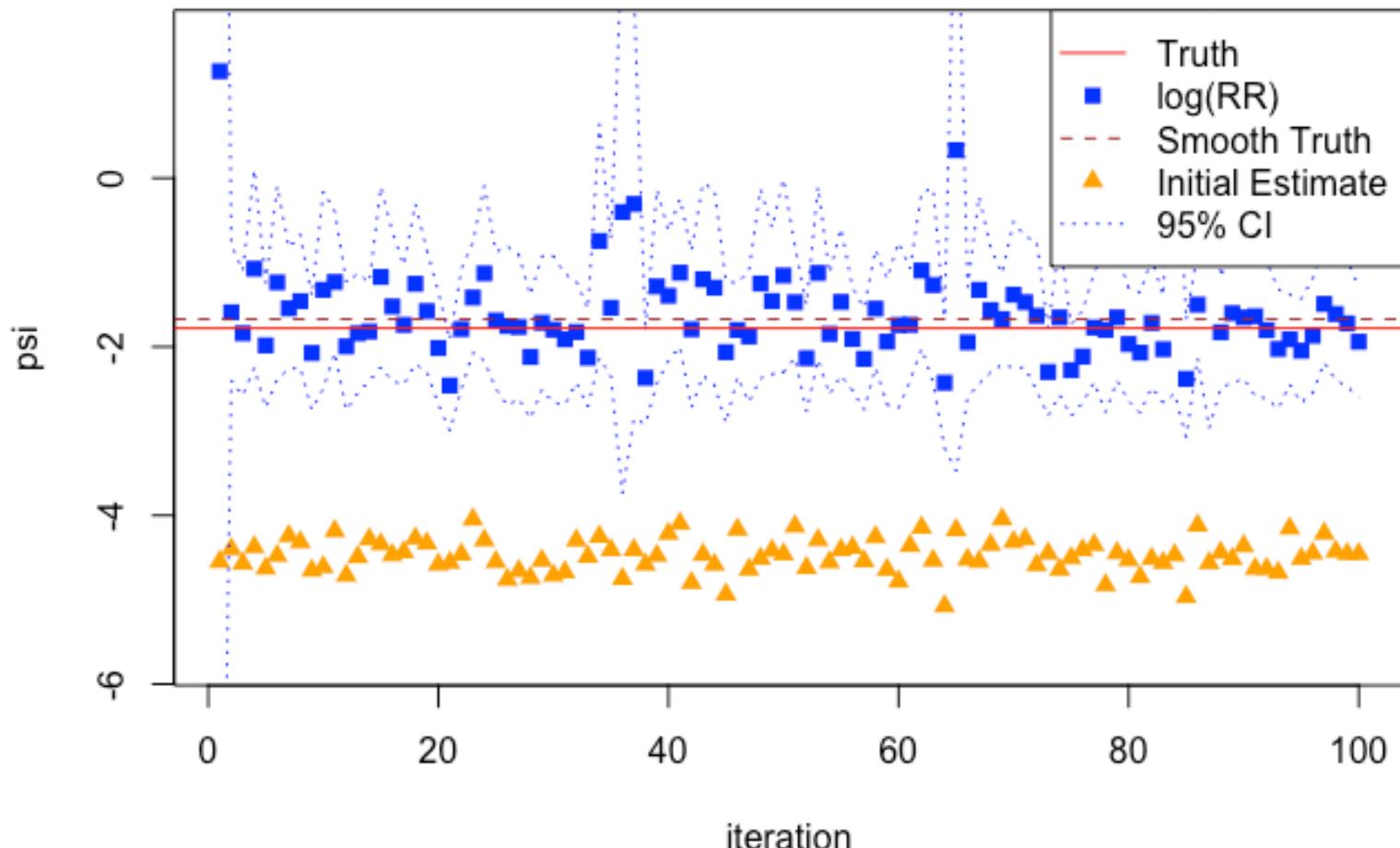
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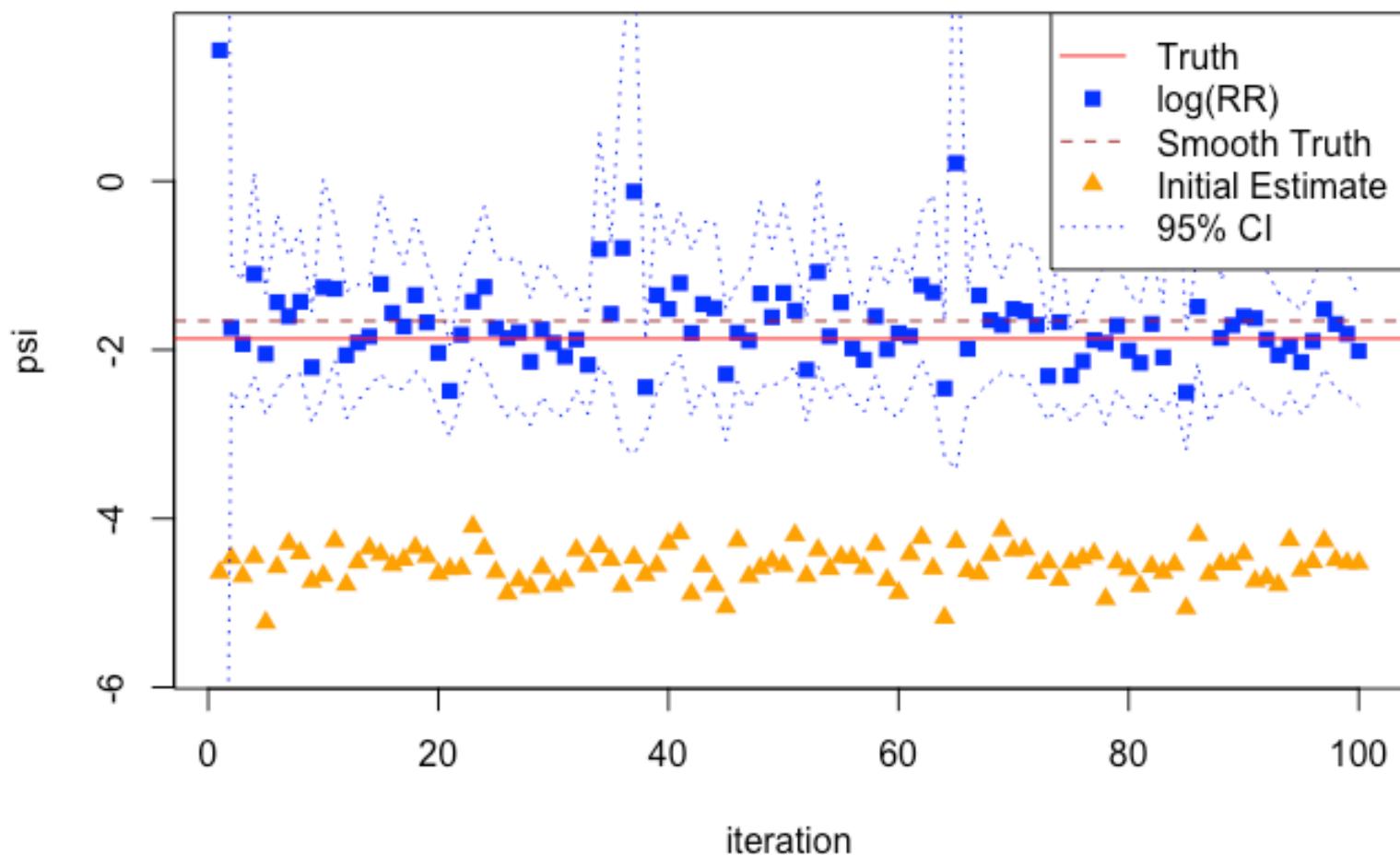
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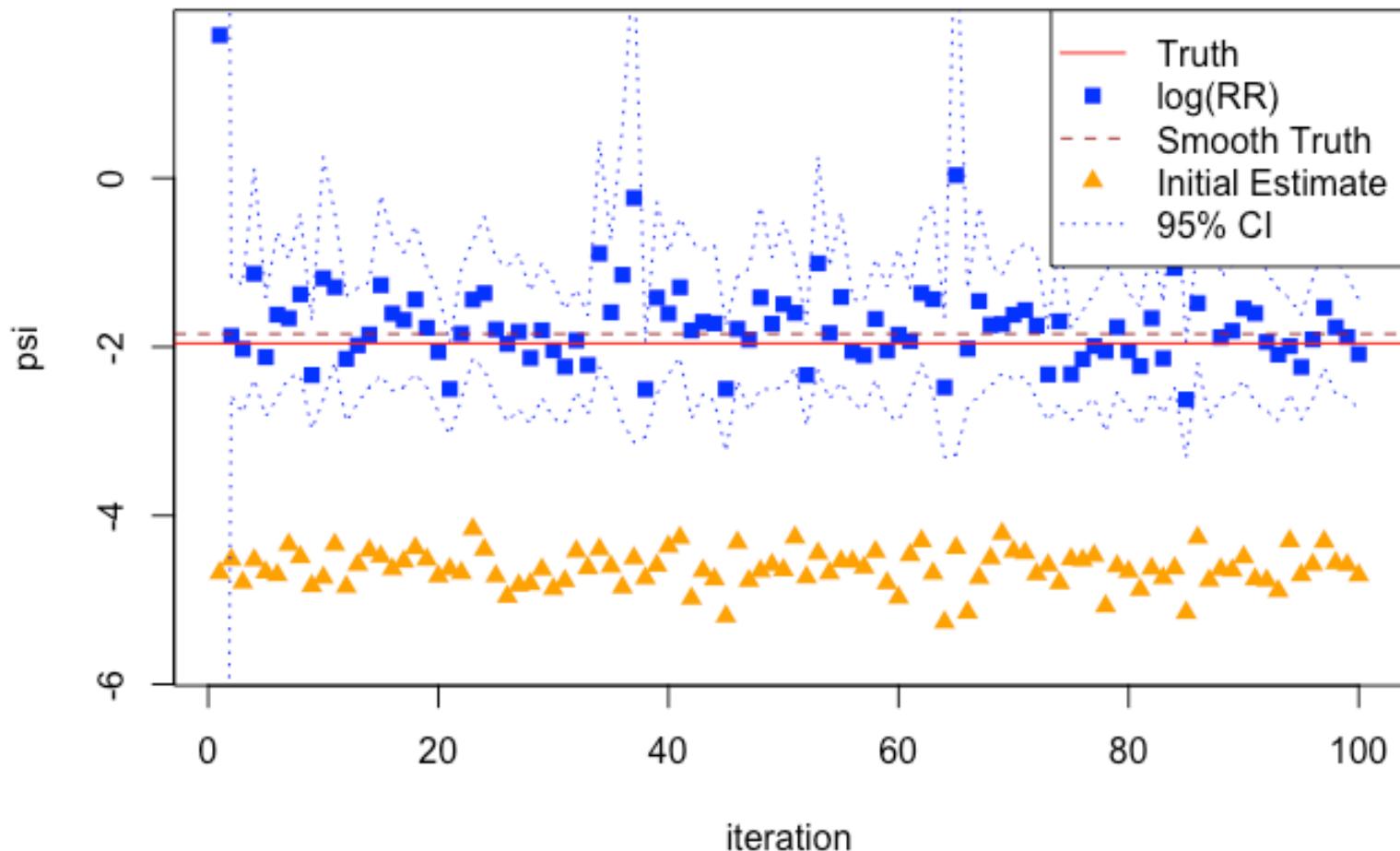
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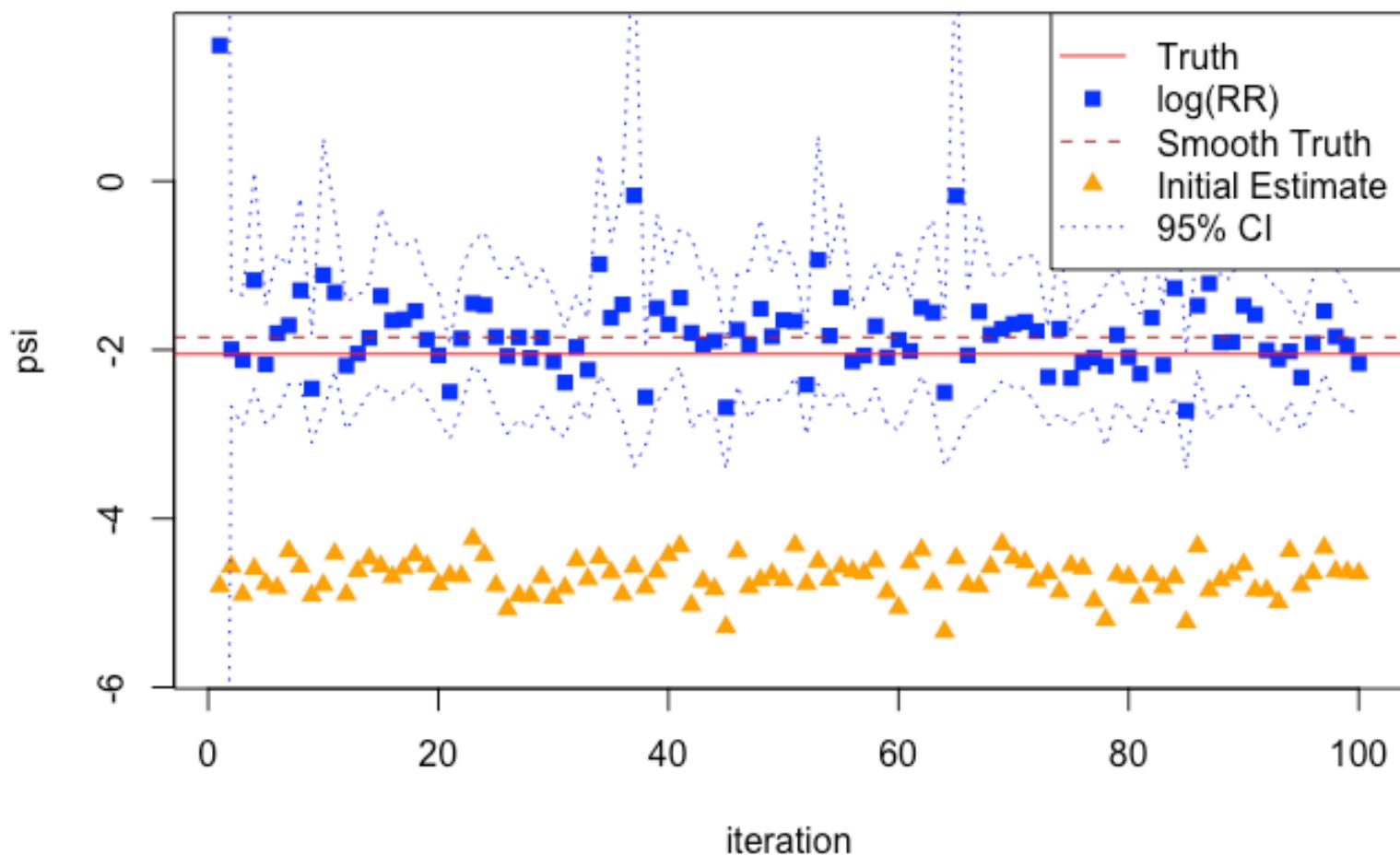
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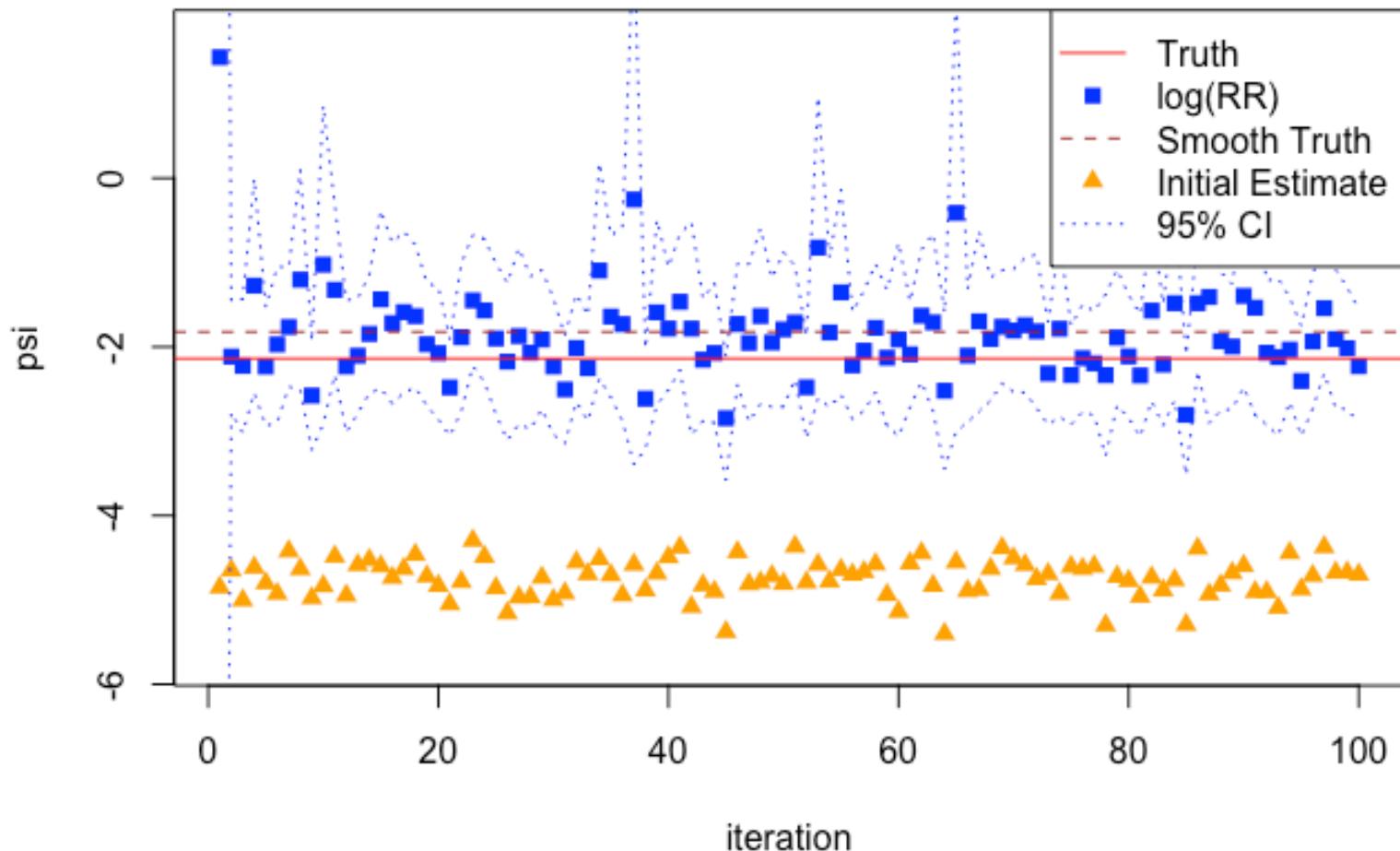
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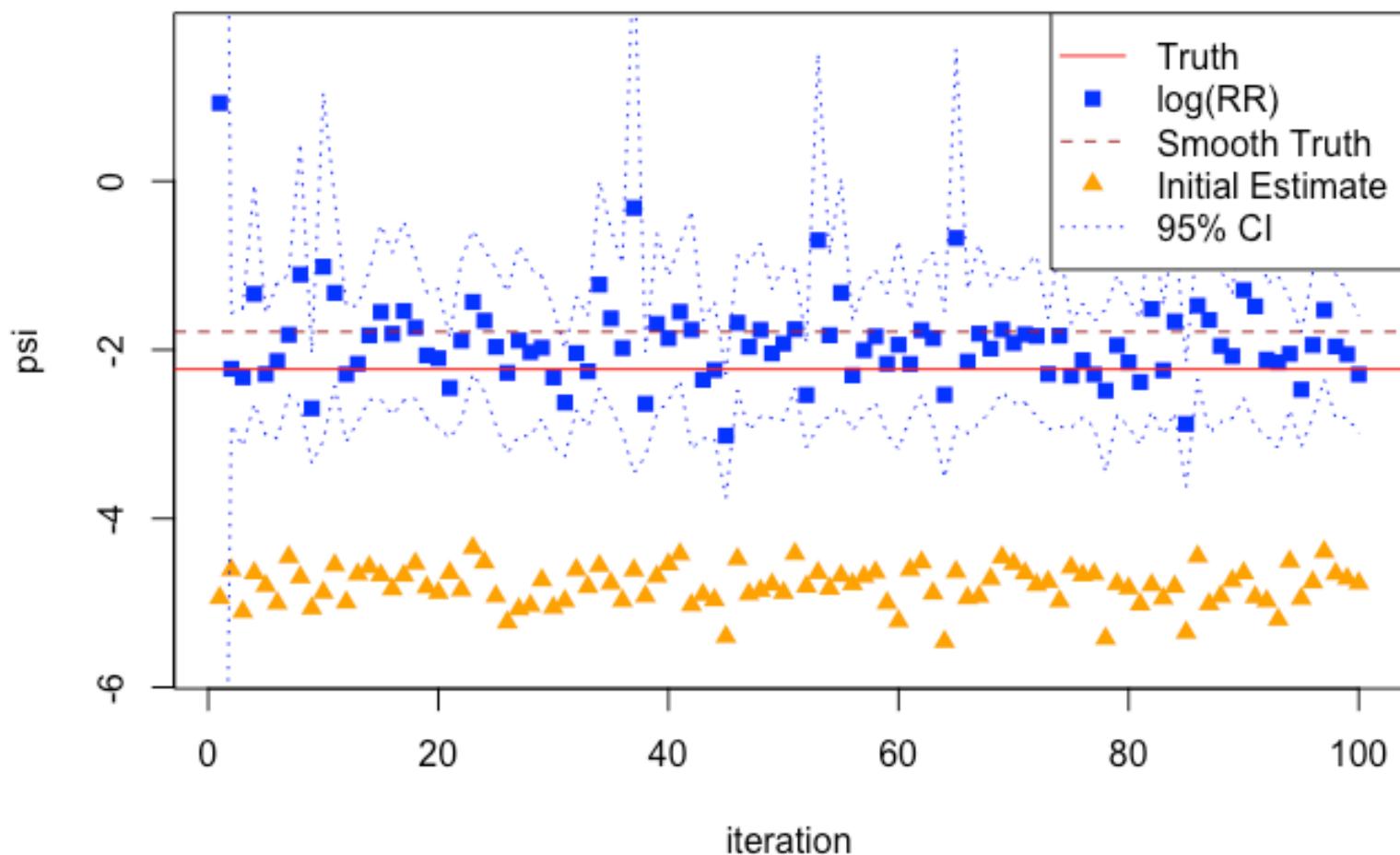
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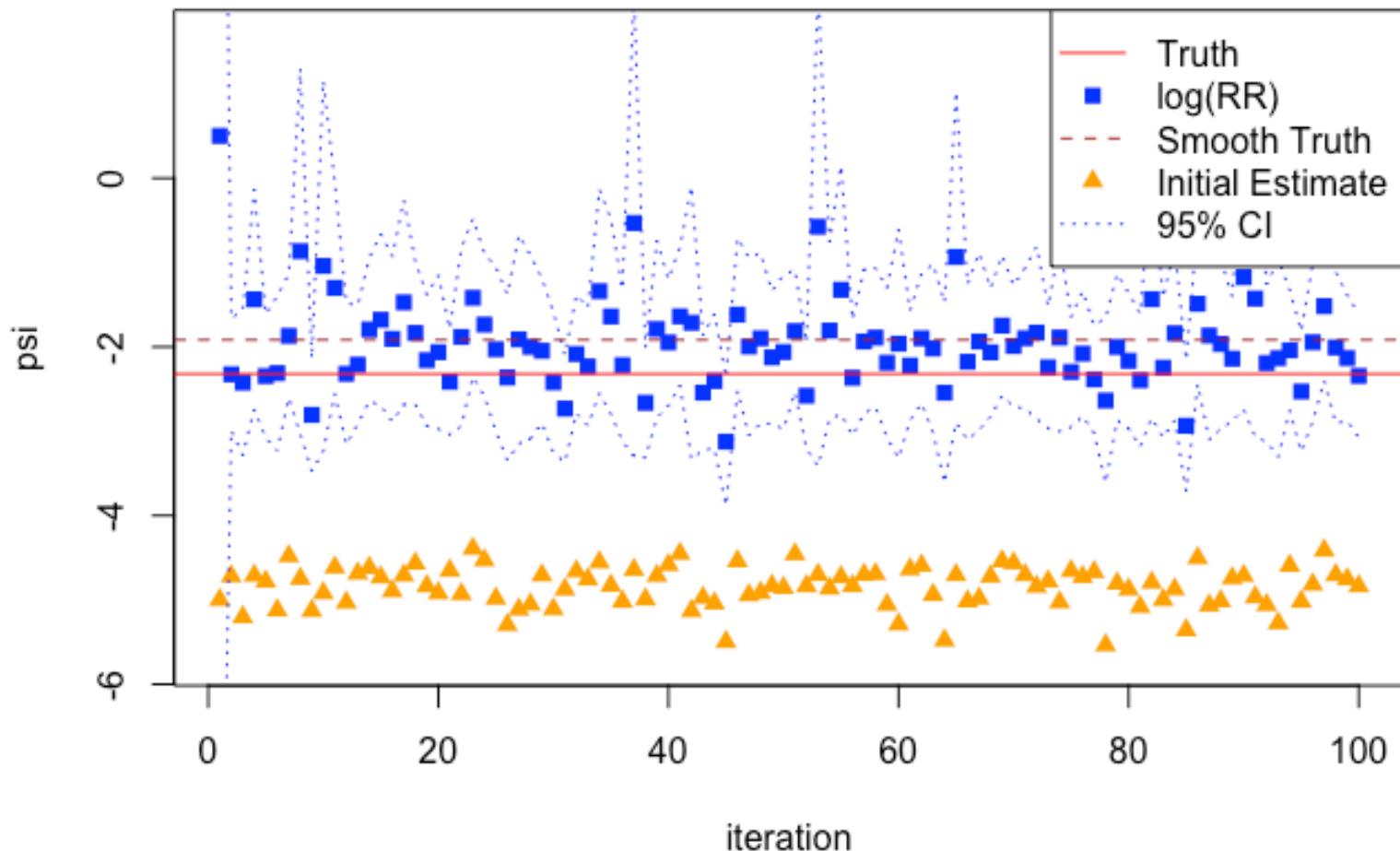
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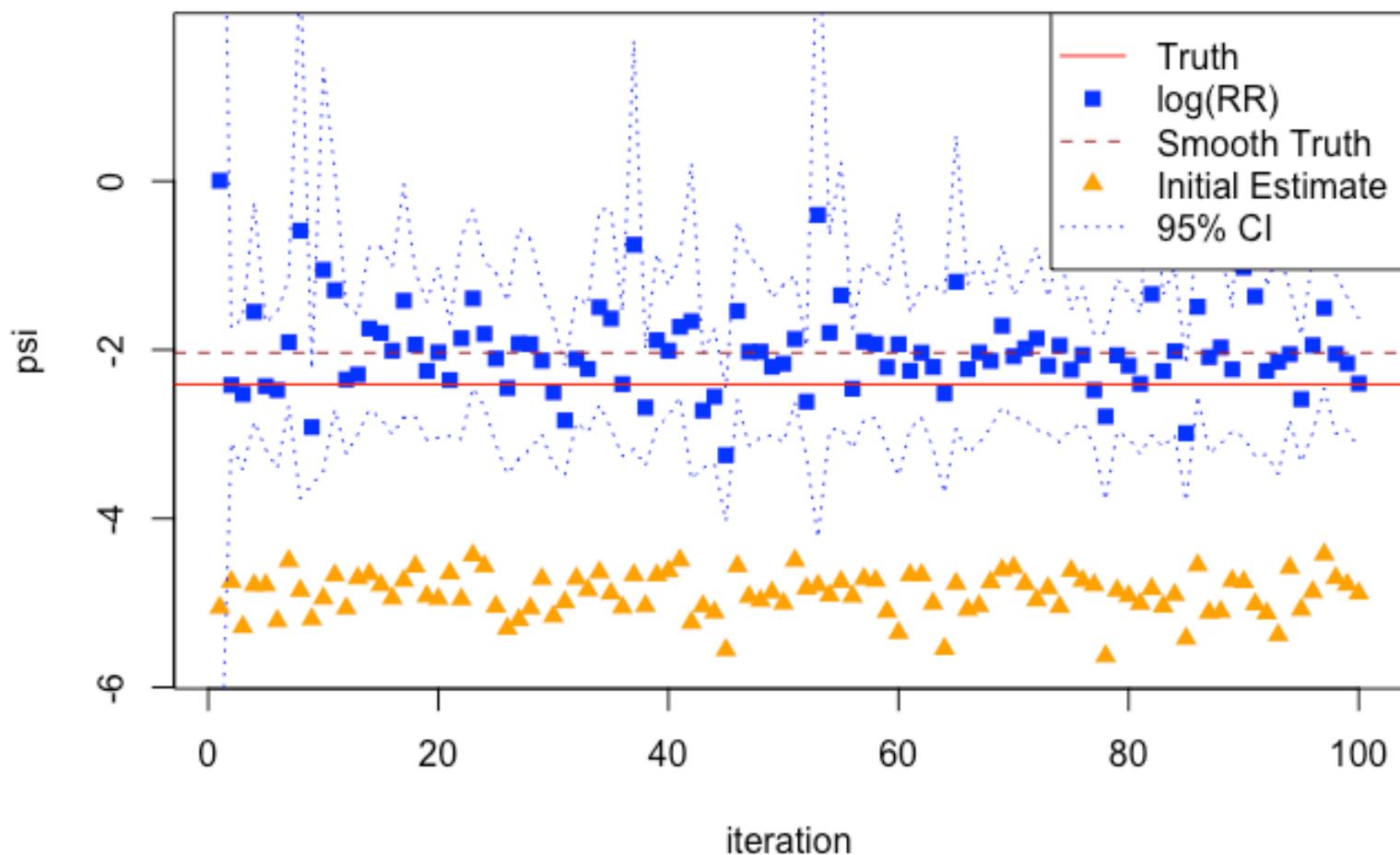
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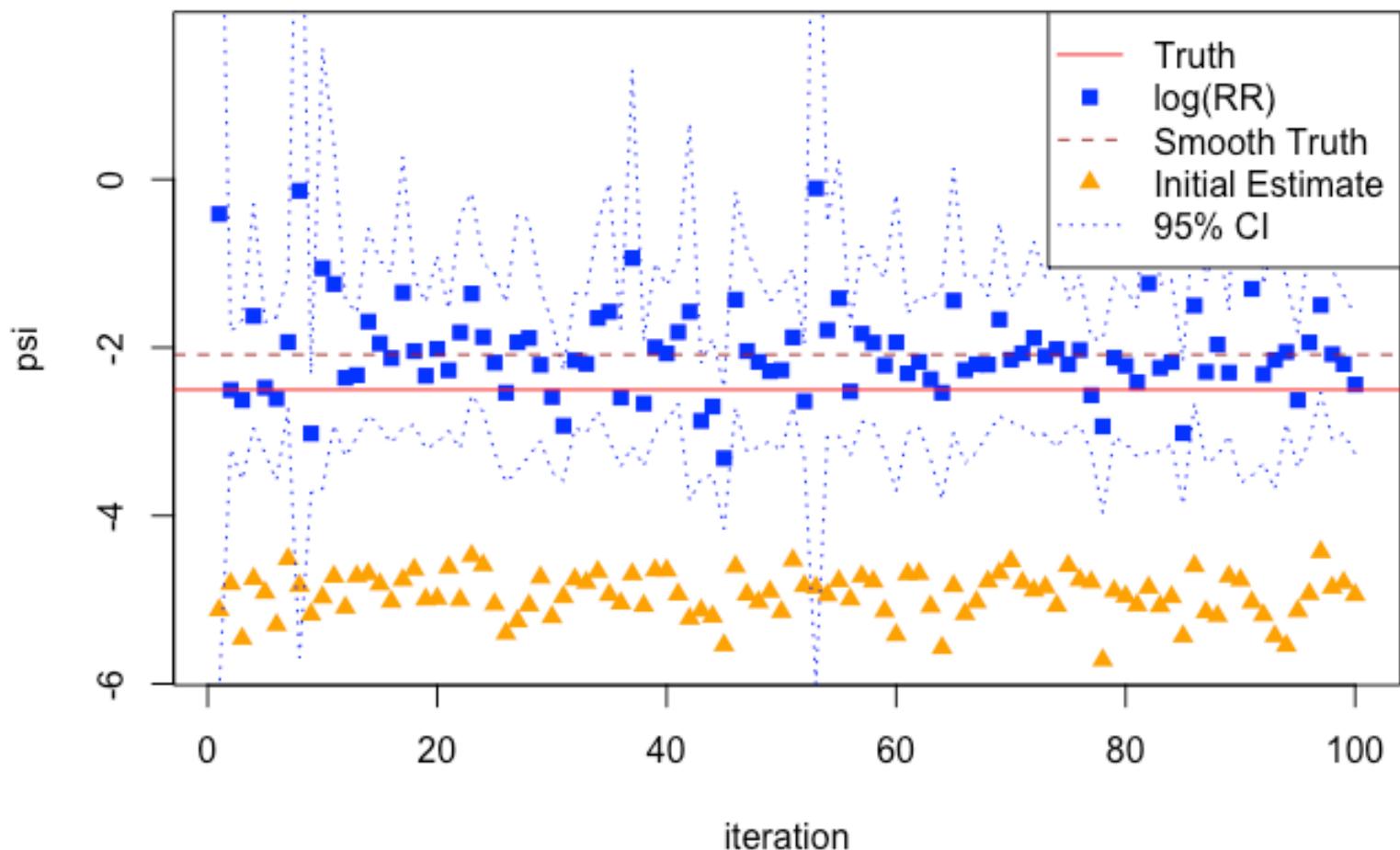
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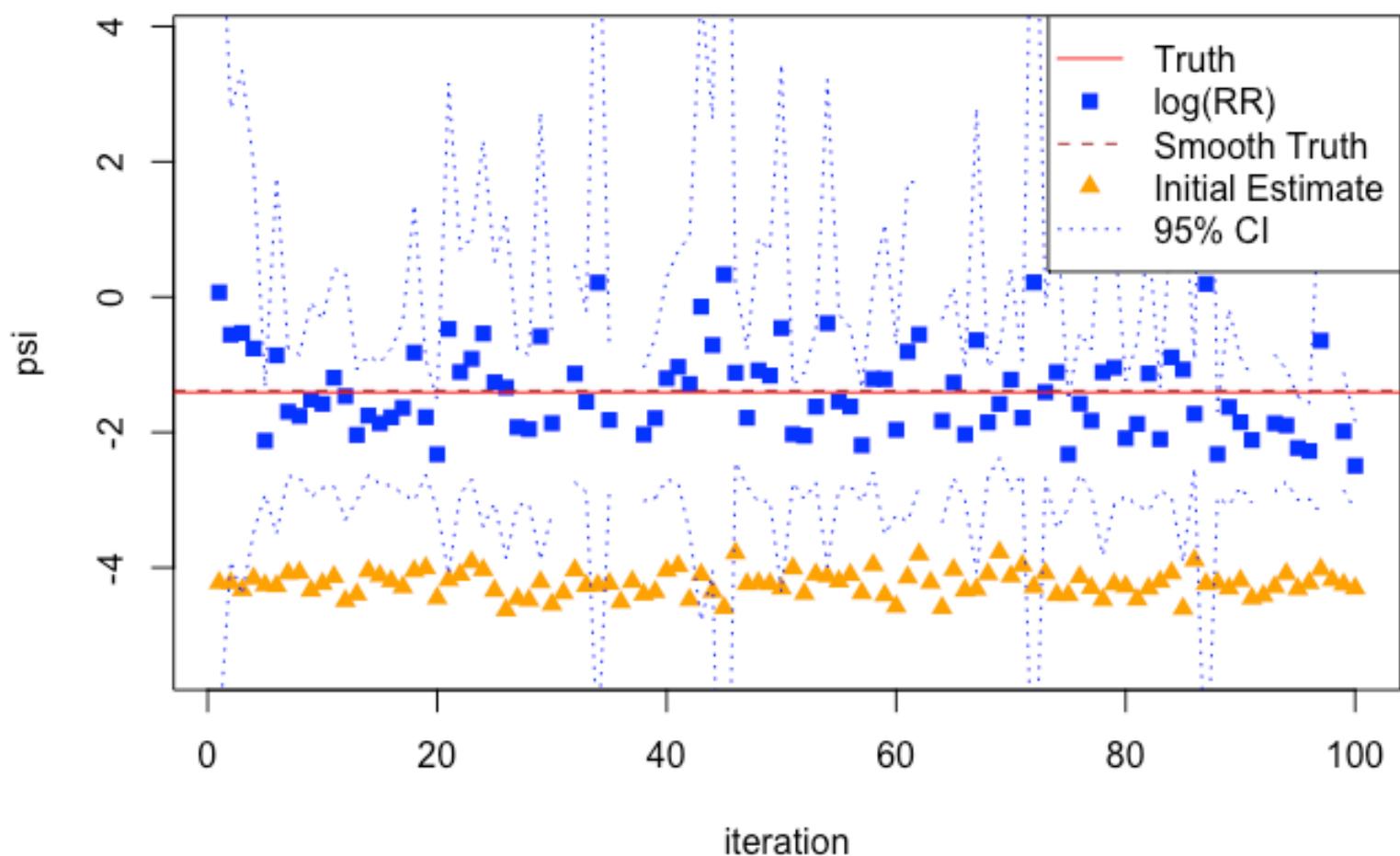
s1=0.9 Alternative case for $\text{cor}(S1,W)=0.25$, crossover rate=1, sample rate=1



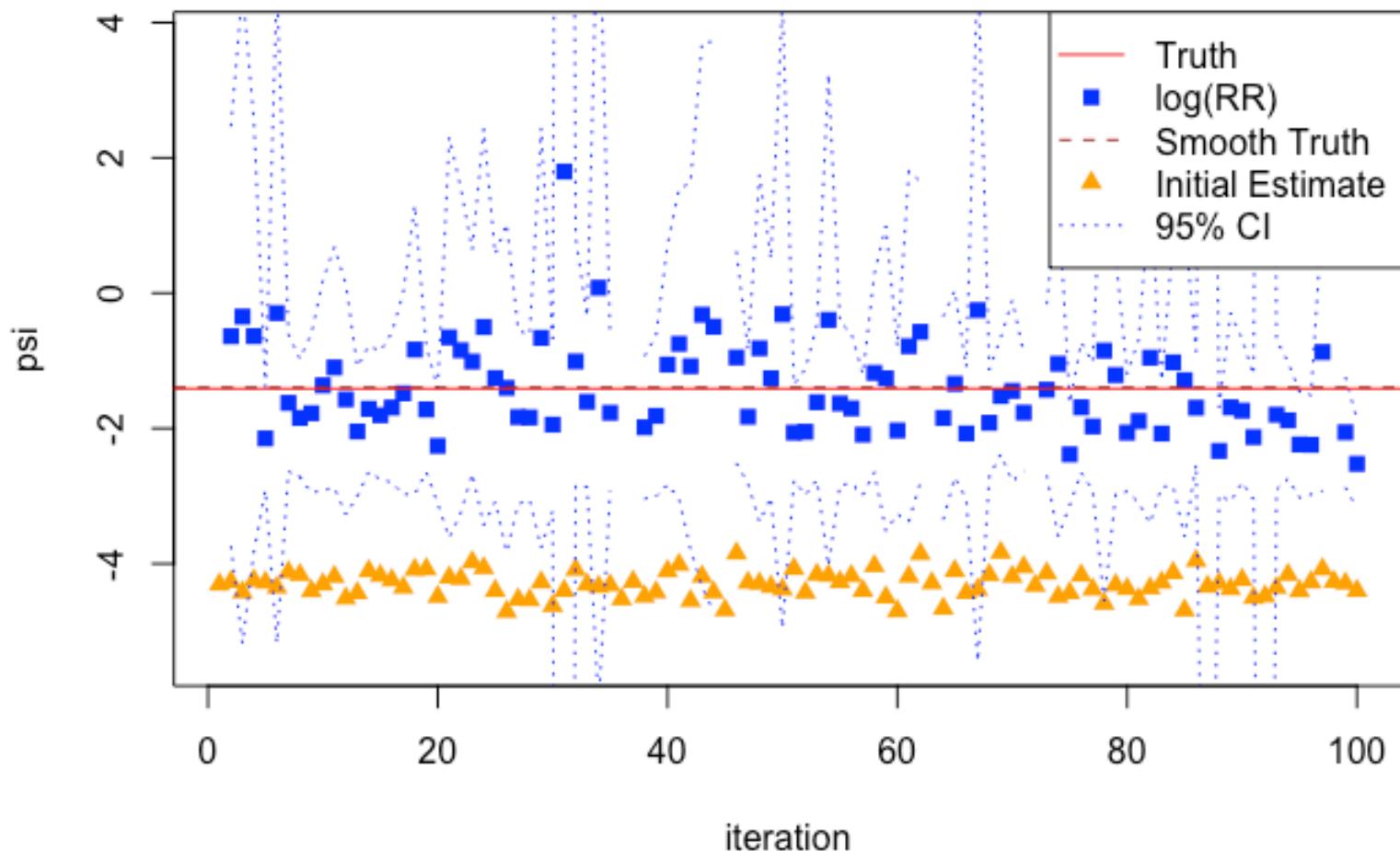
s1=1 Alternative case for $\text{cor}(S1,W)=0.25$, crossover rate=1, sample rate=1



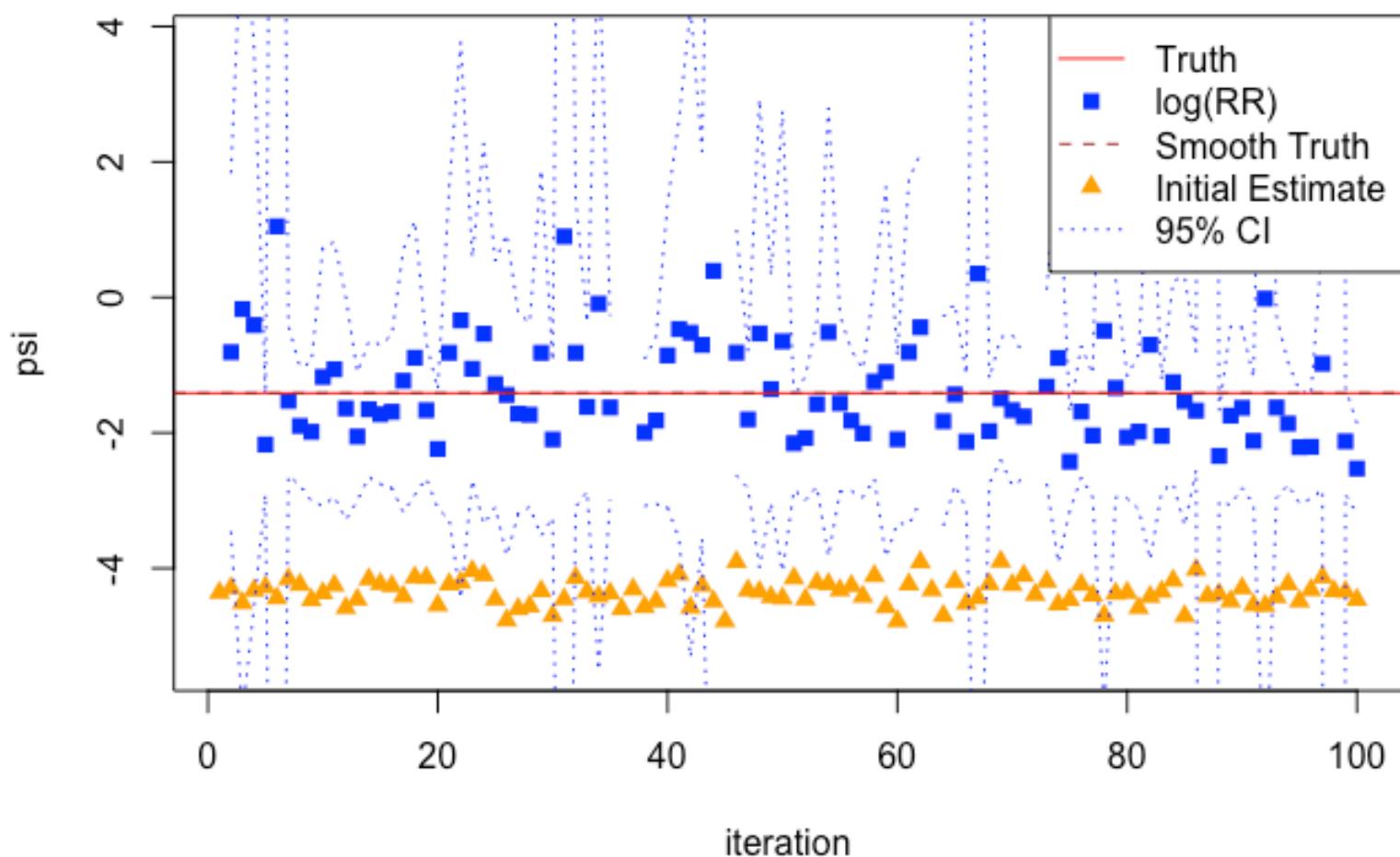
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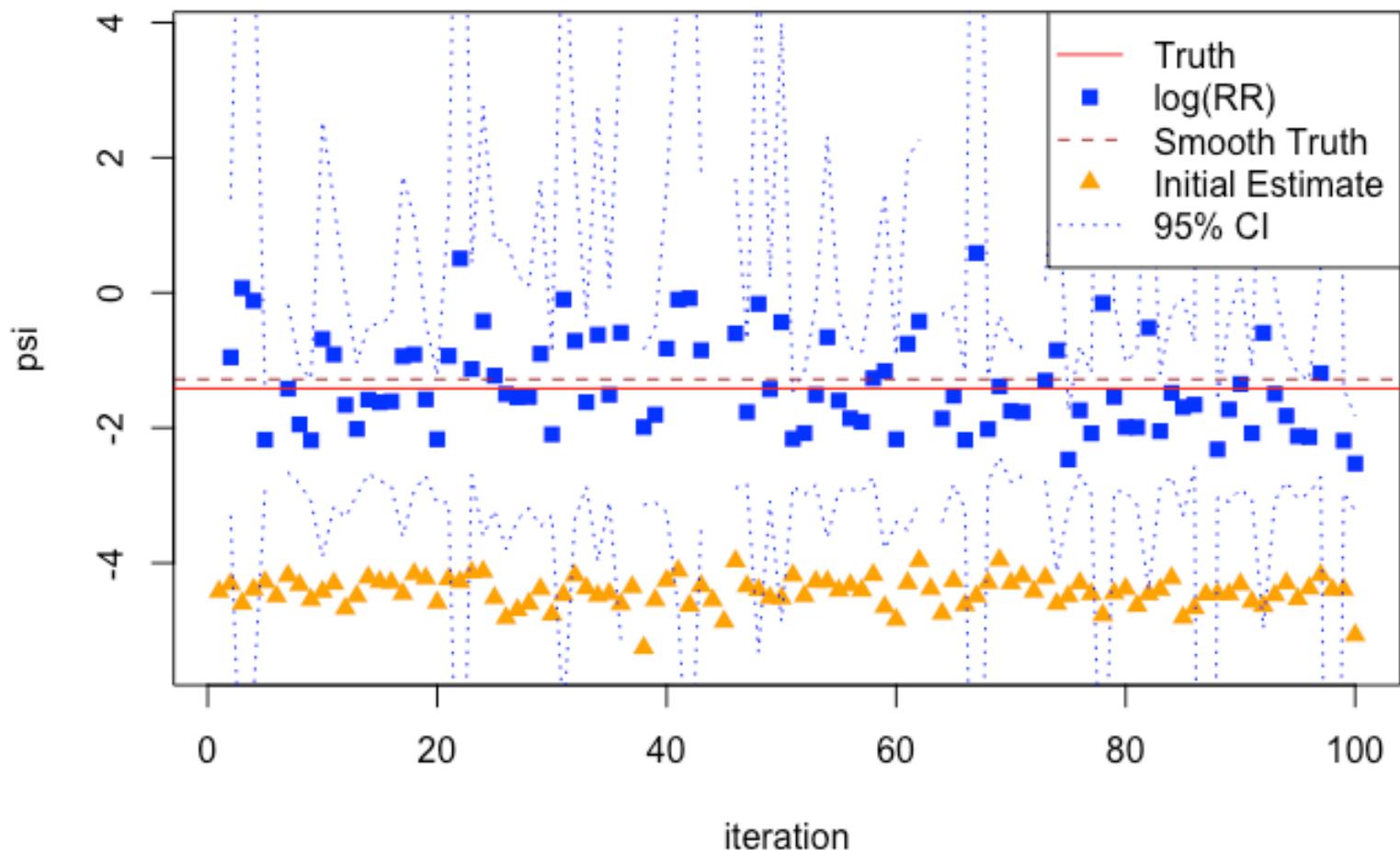
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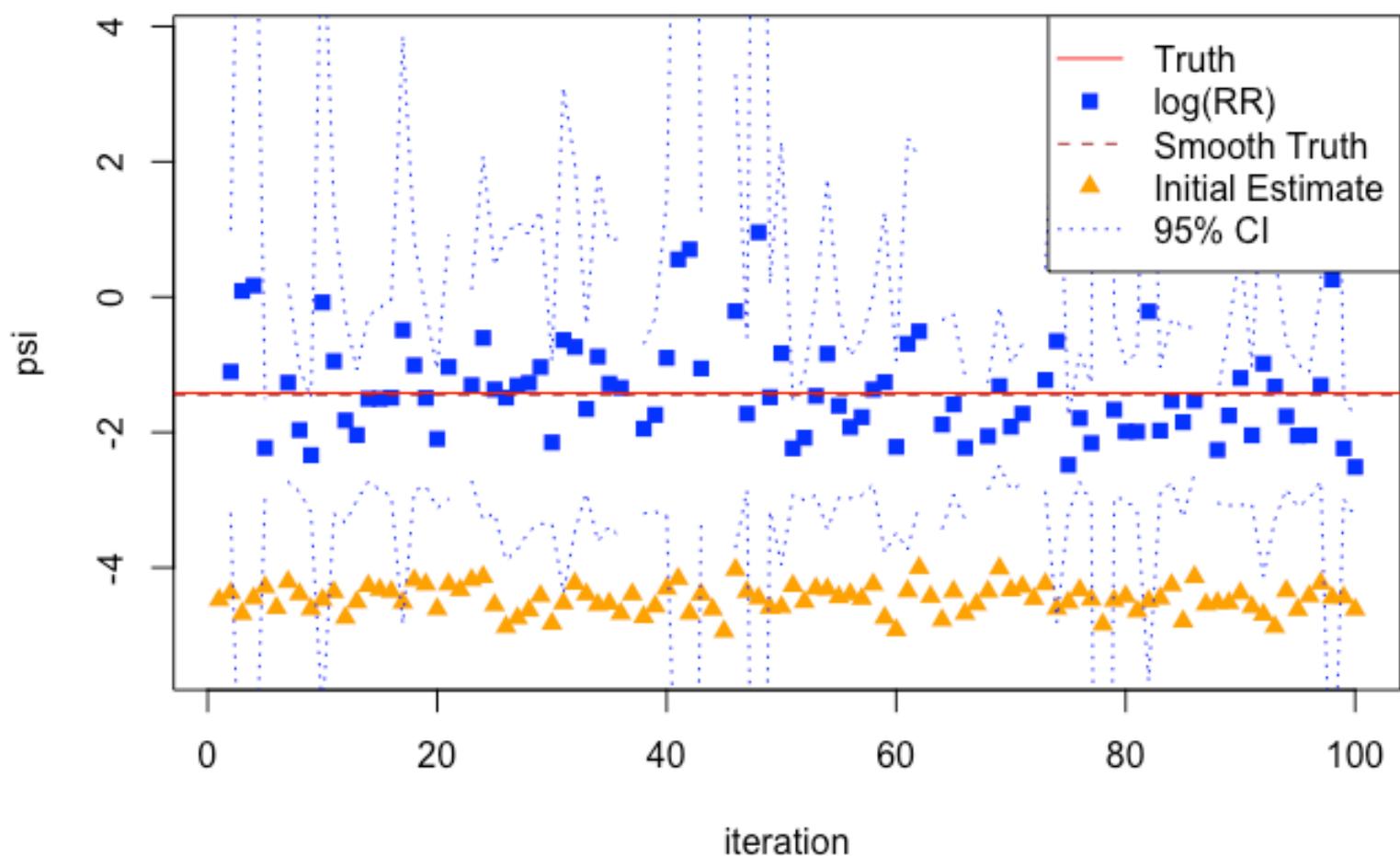
s1=0.2 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.25



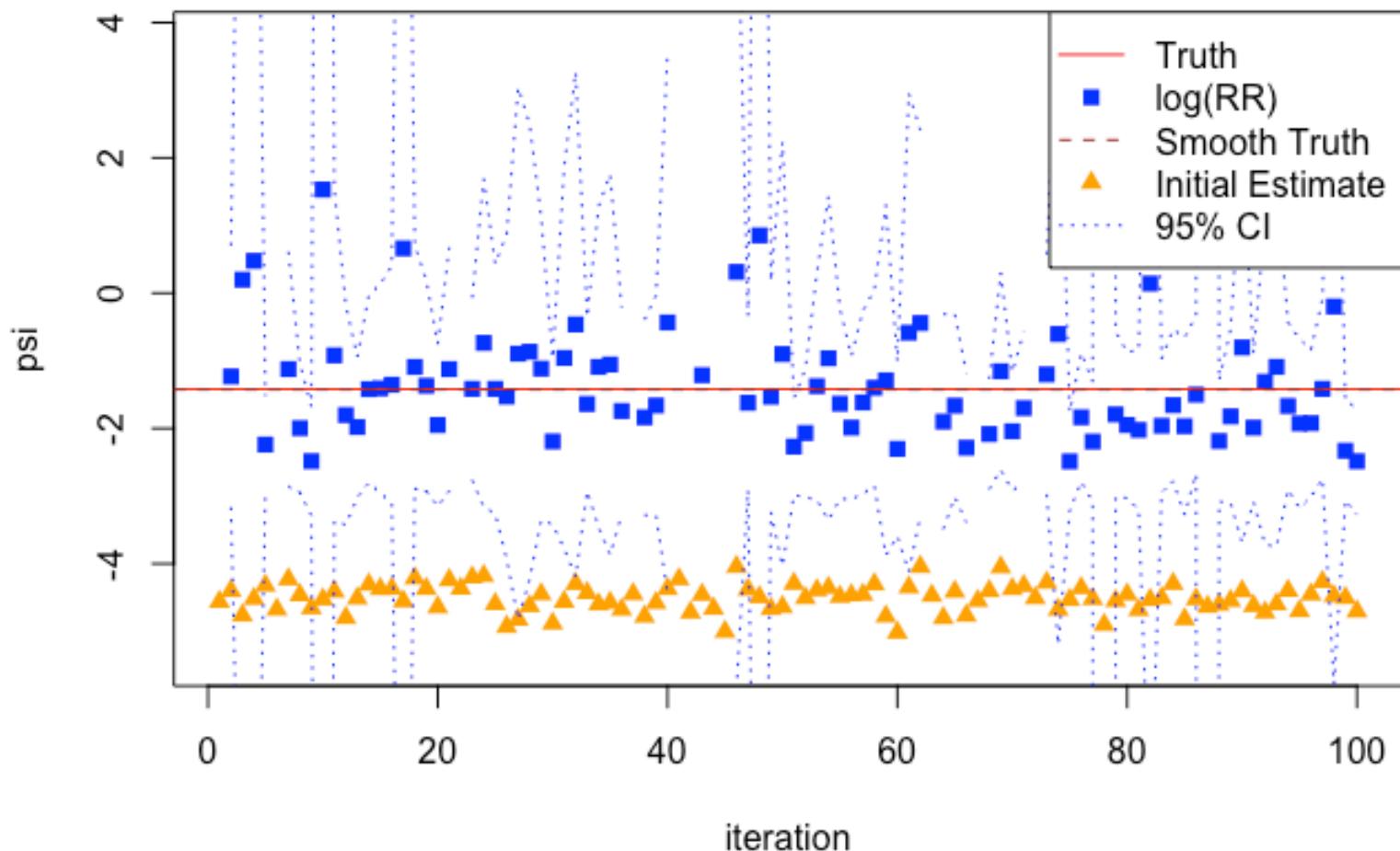
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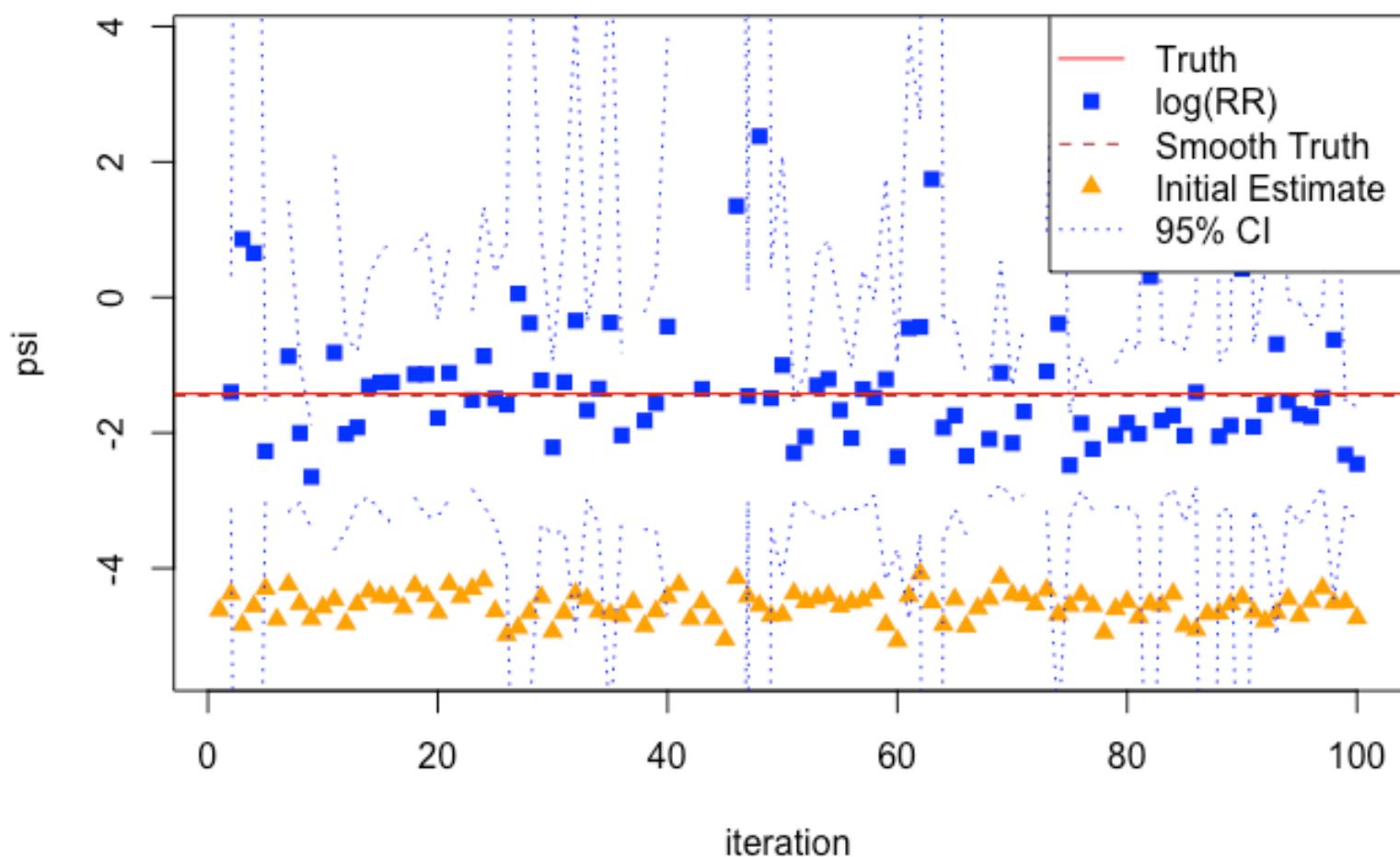
s1=0.4 Null case for $\text{cor}(S1,W)=0.5$, crossover rate=0.25, sample rate=0.25



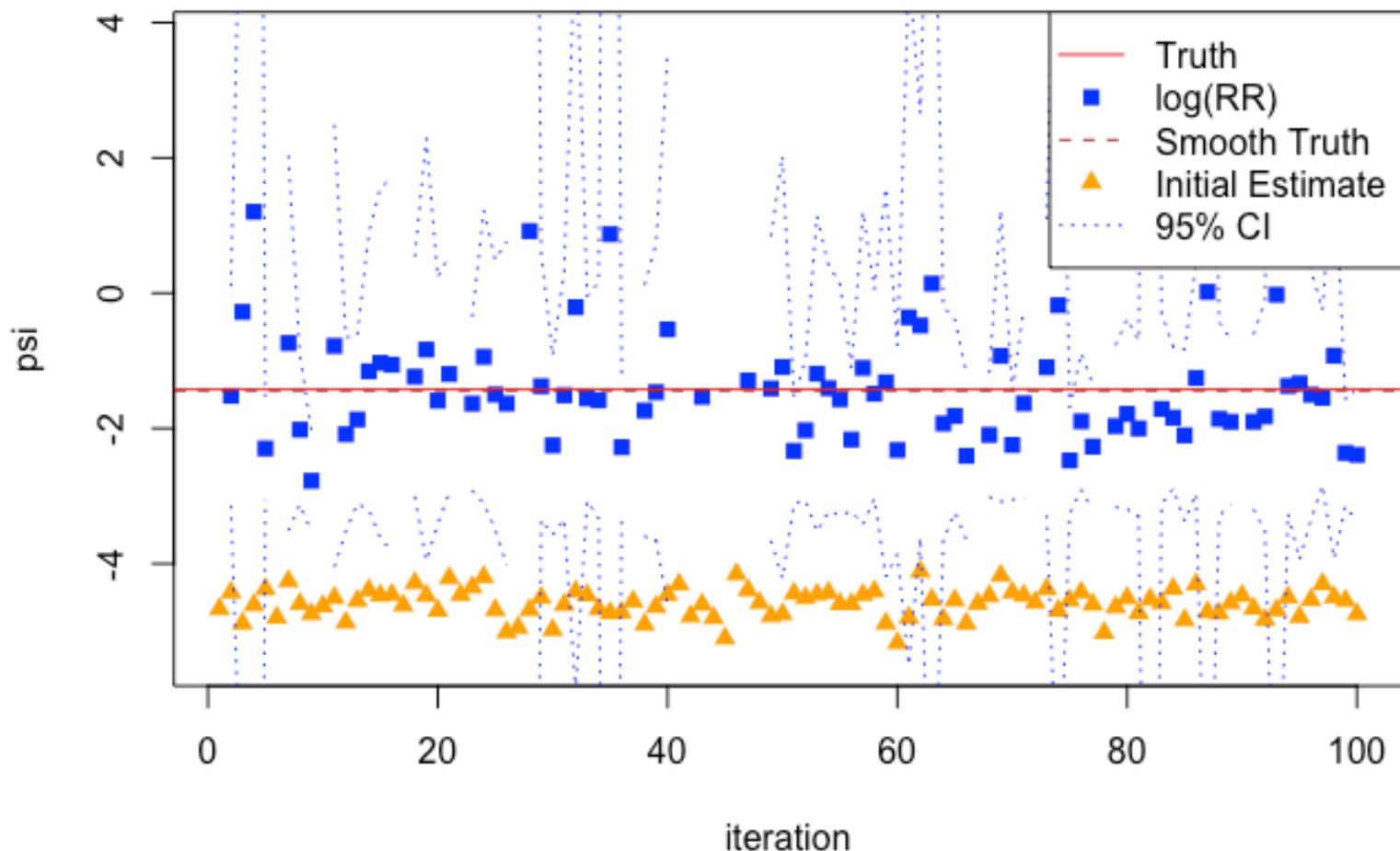
s1=0.5 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.25



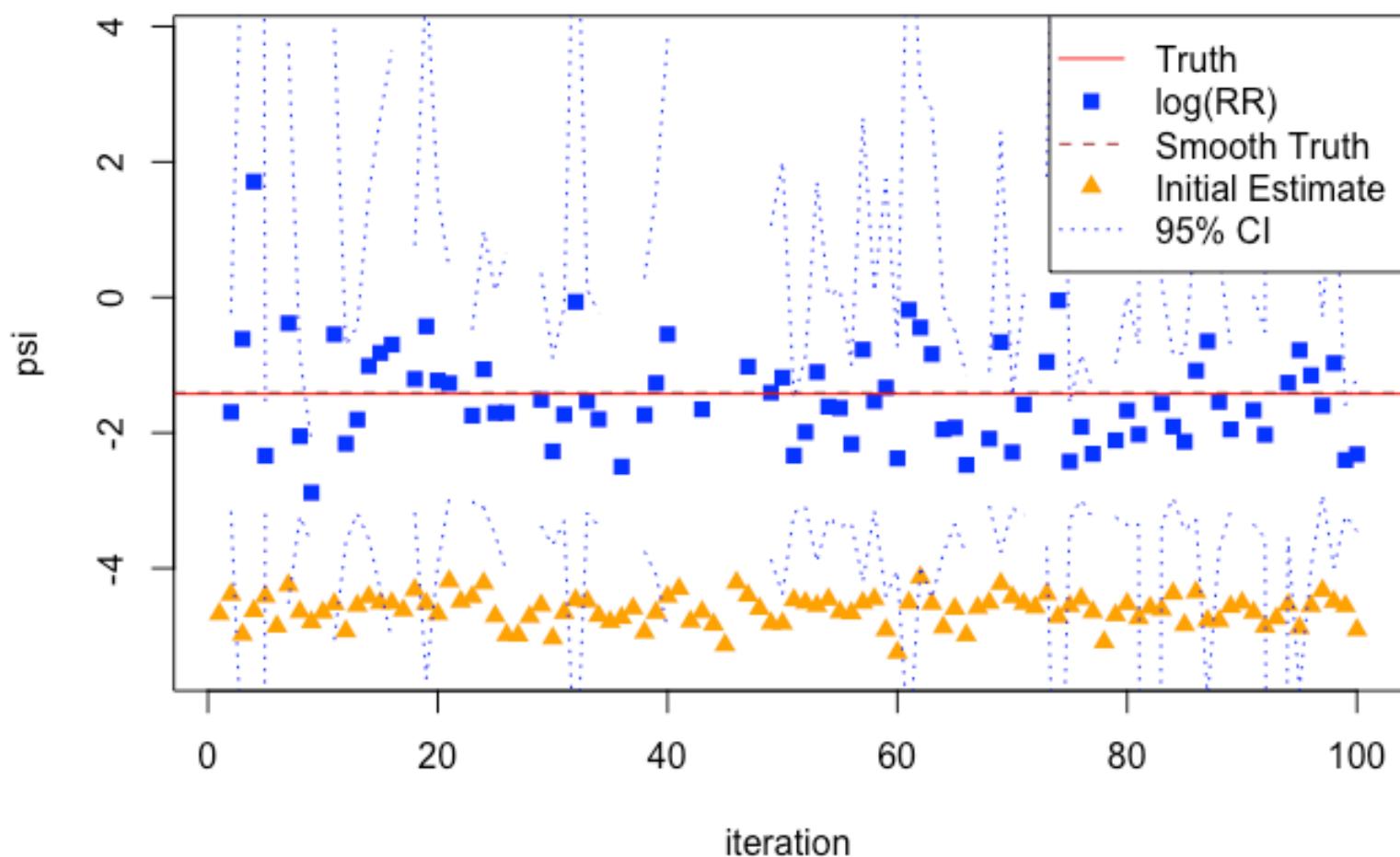
s1=0.6 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.25



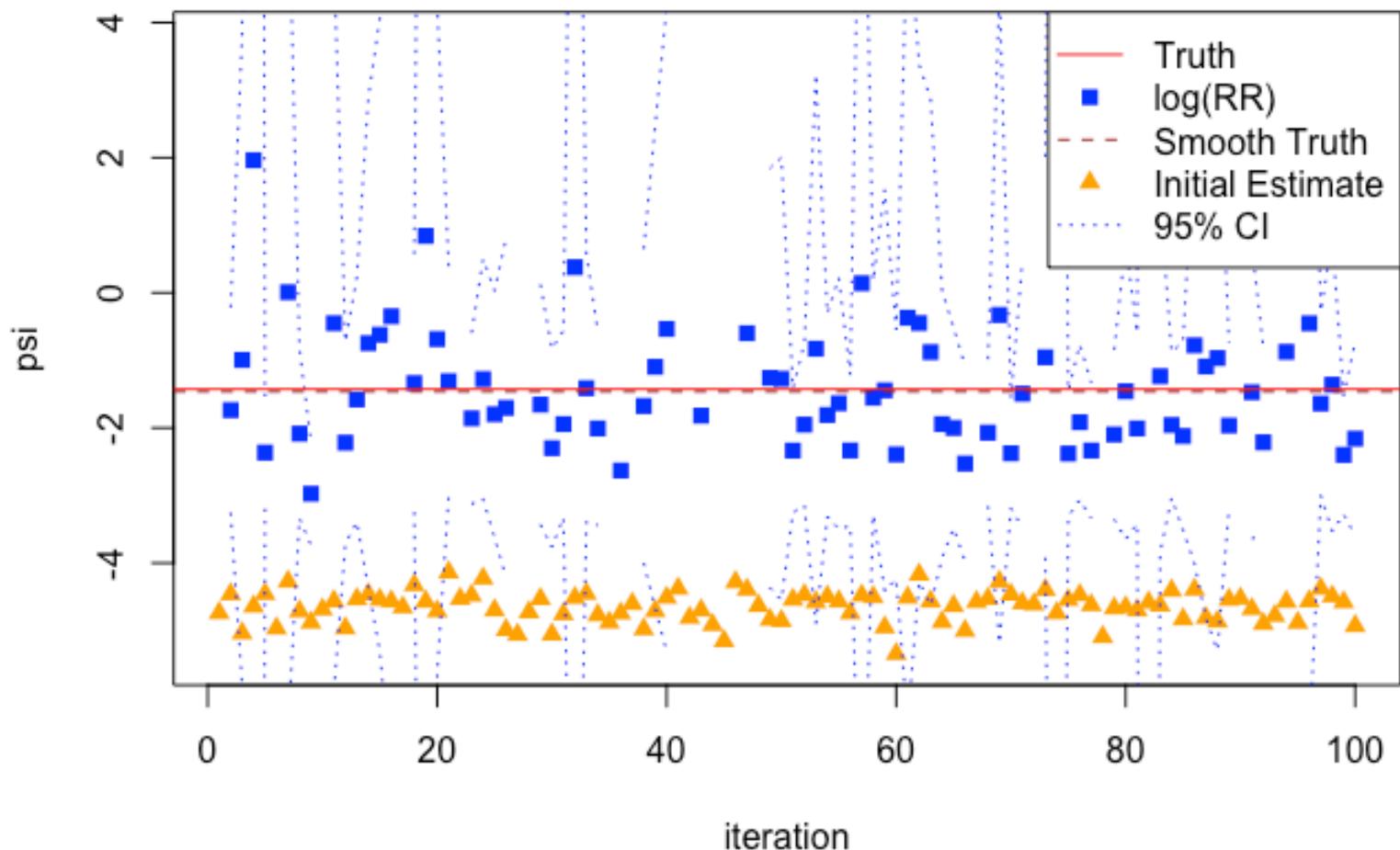
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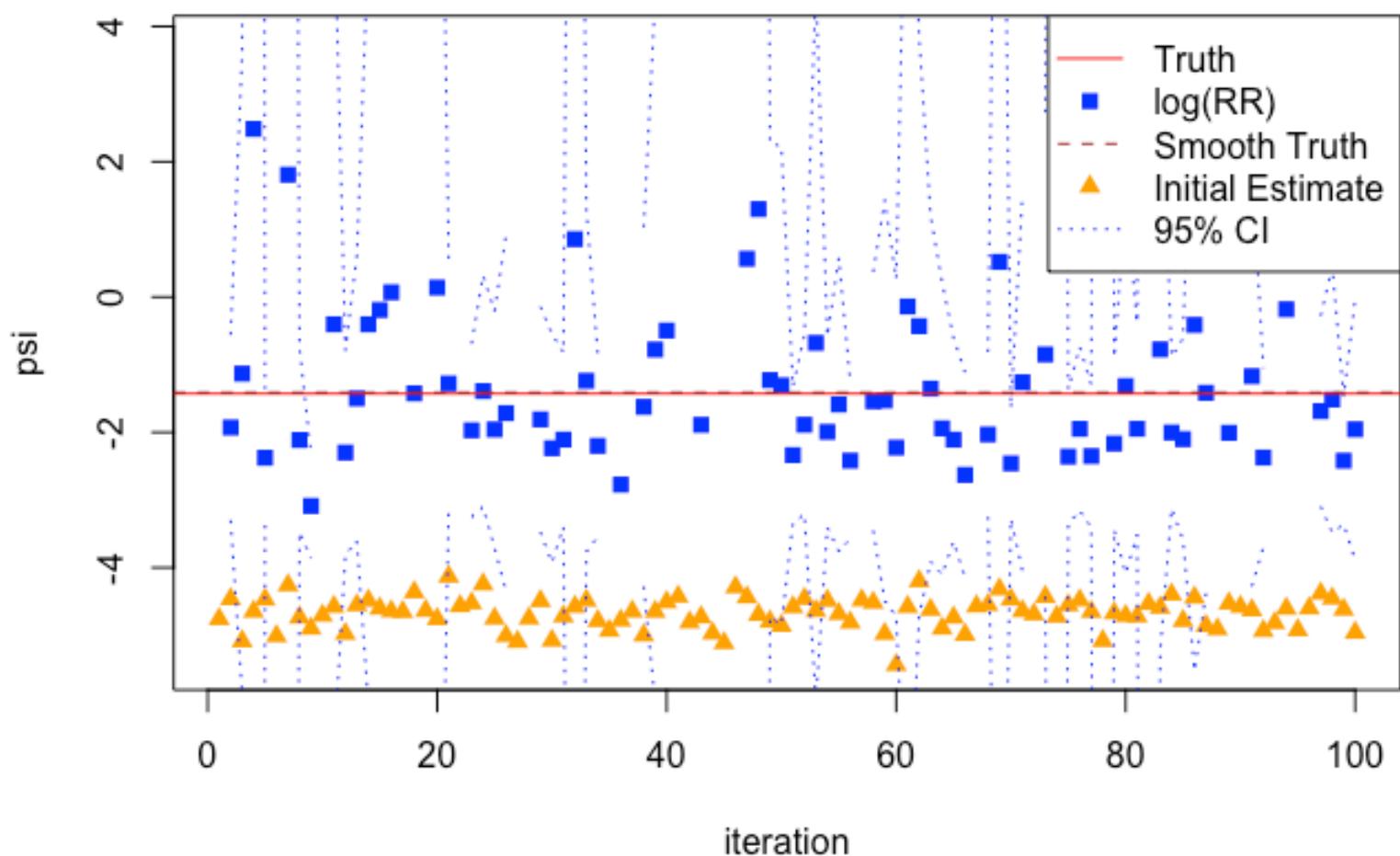
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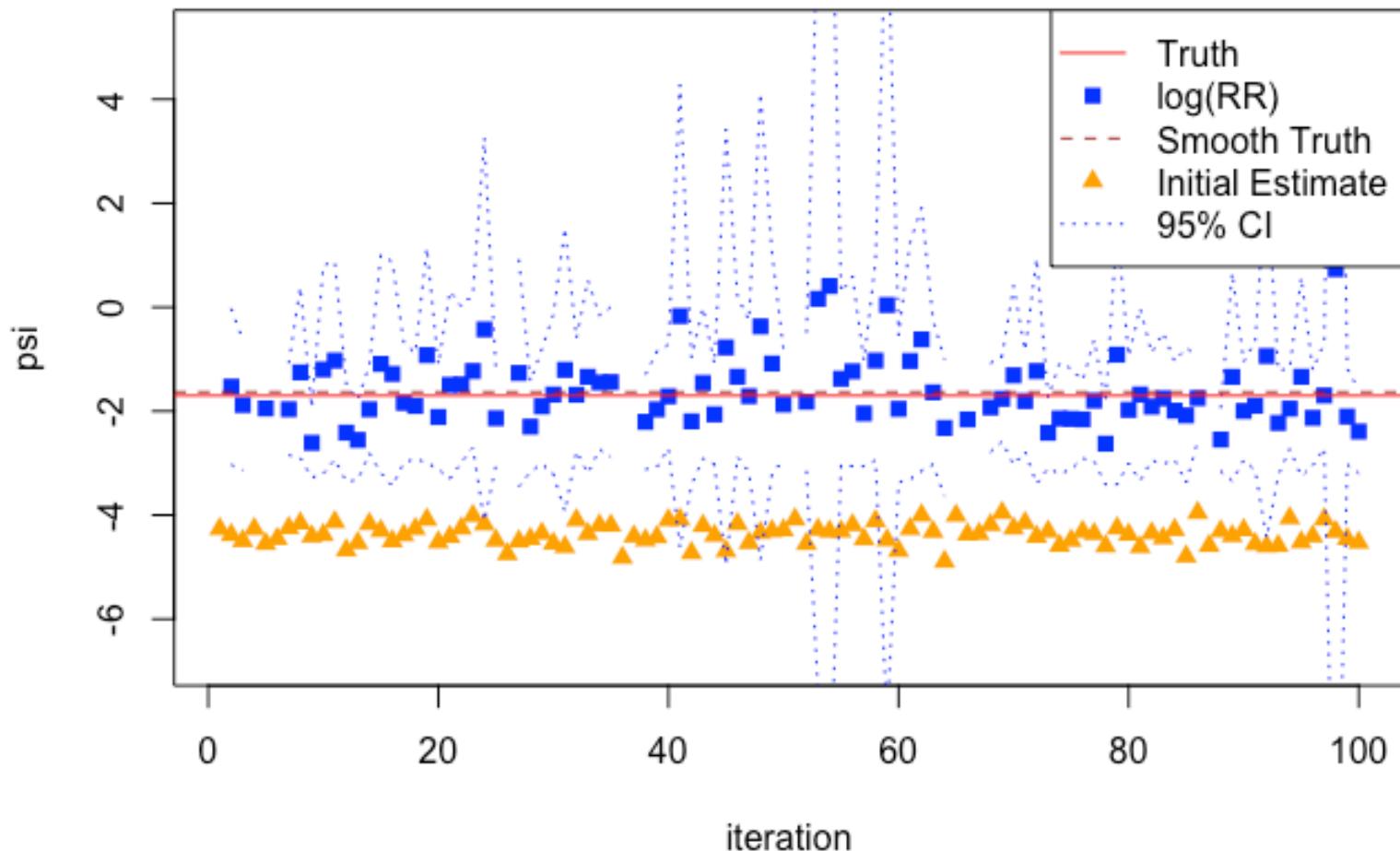
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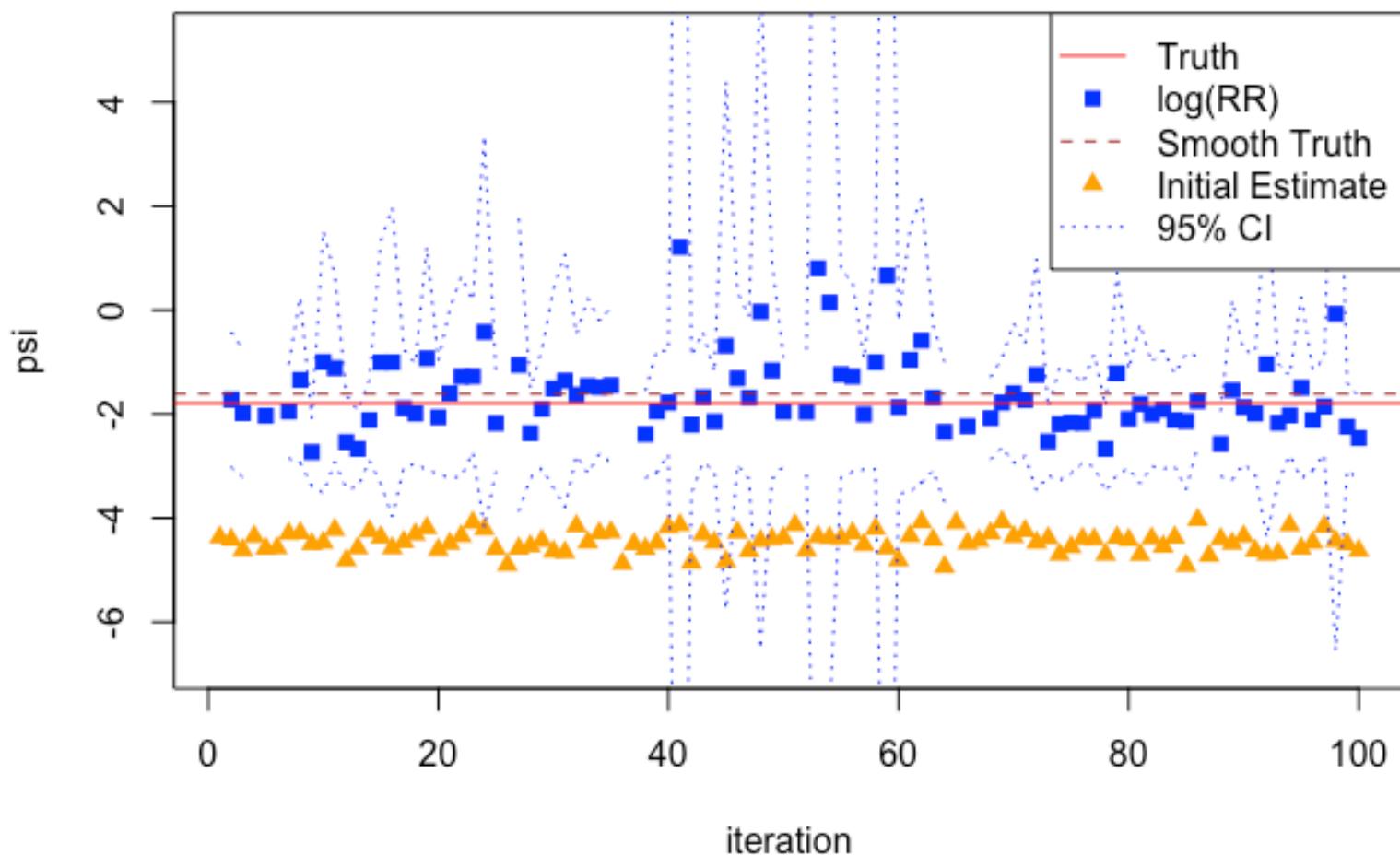
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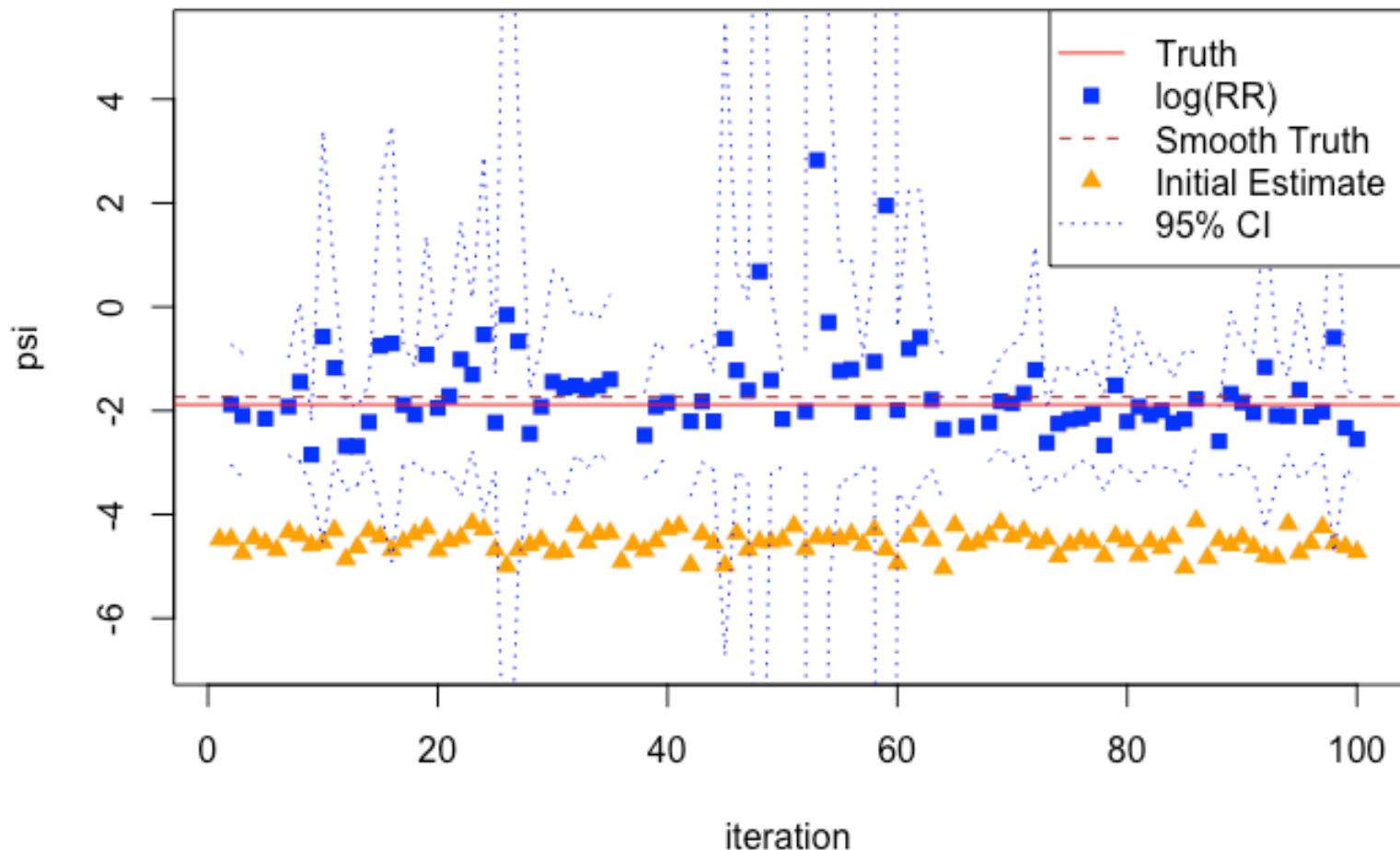
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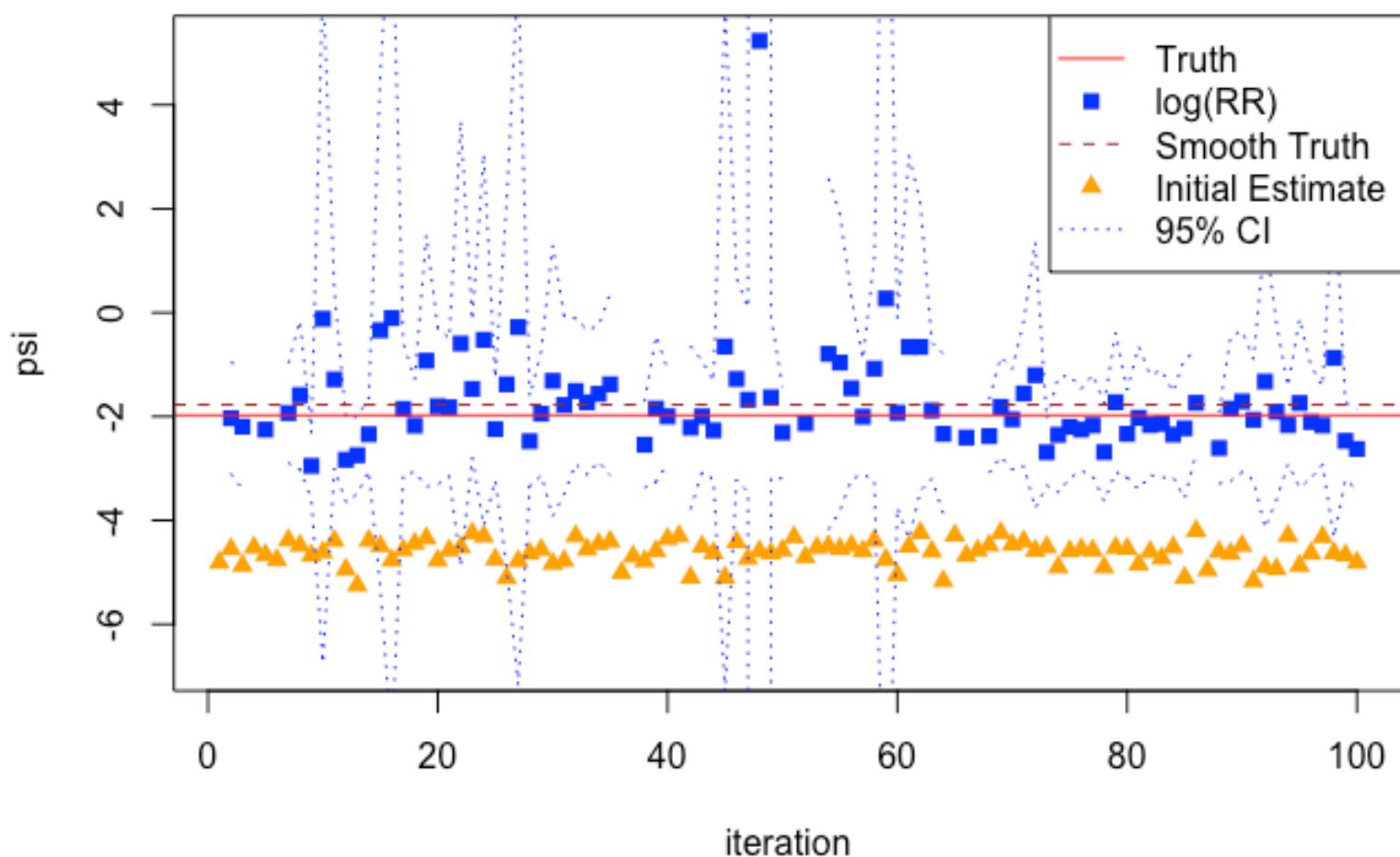
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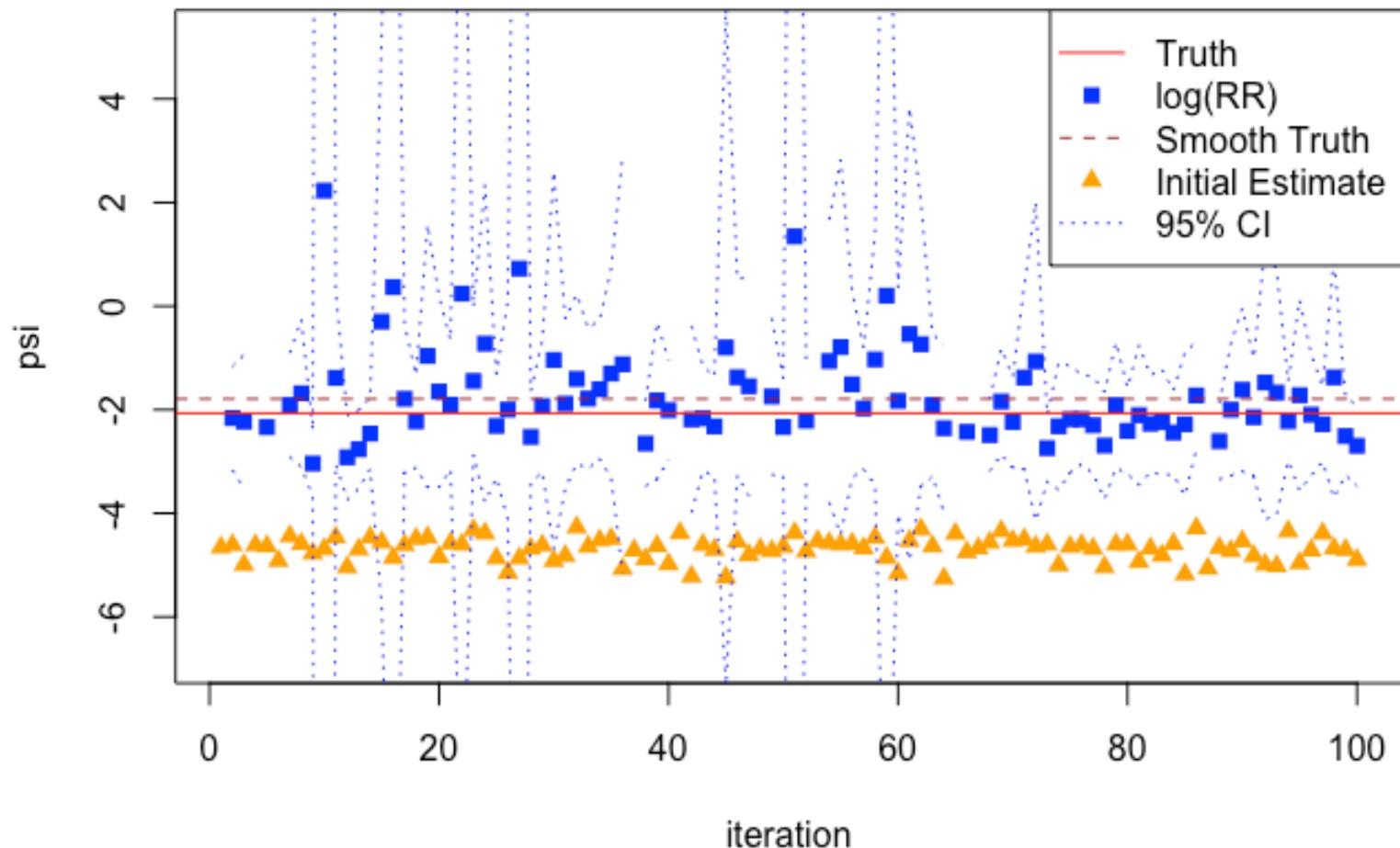
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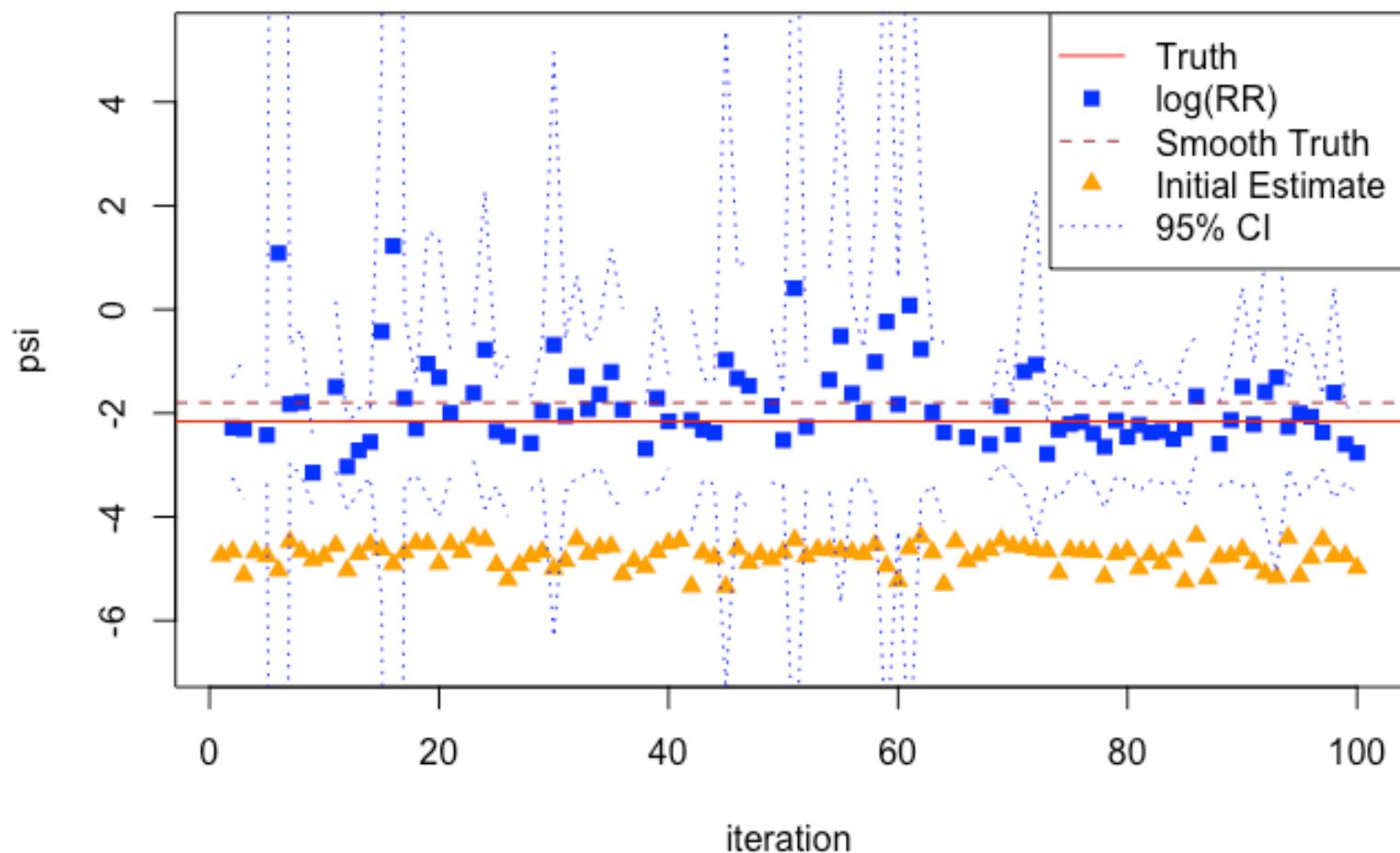
$s_1=0.3$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.25



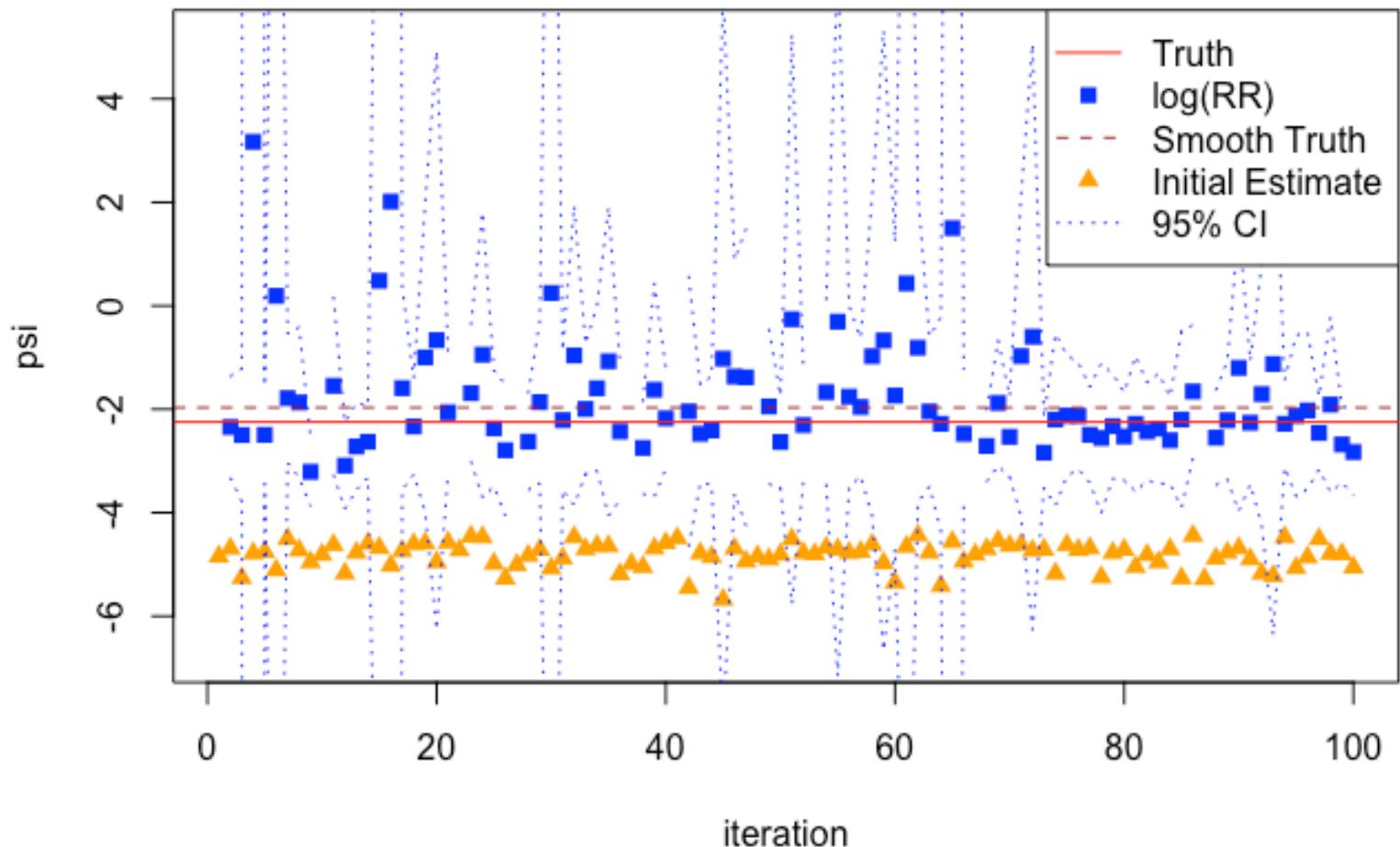
$s_1=0.4$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.25



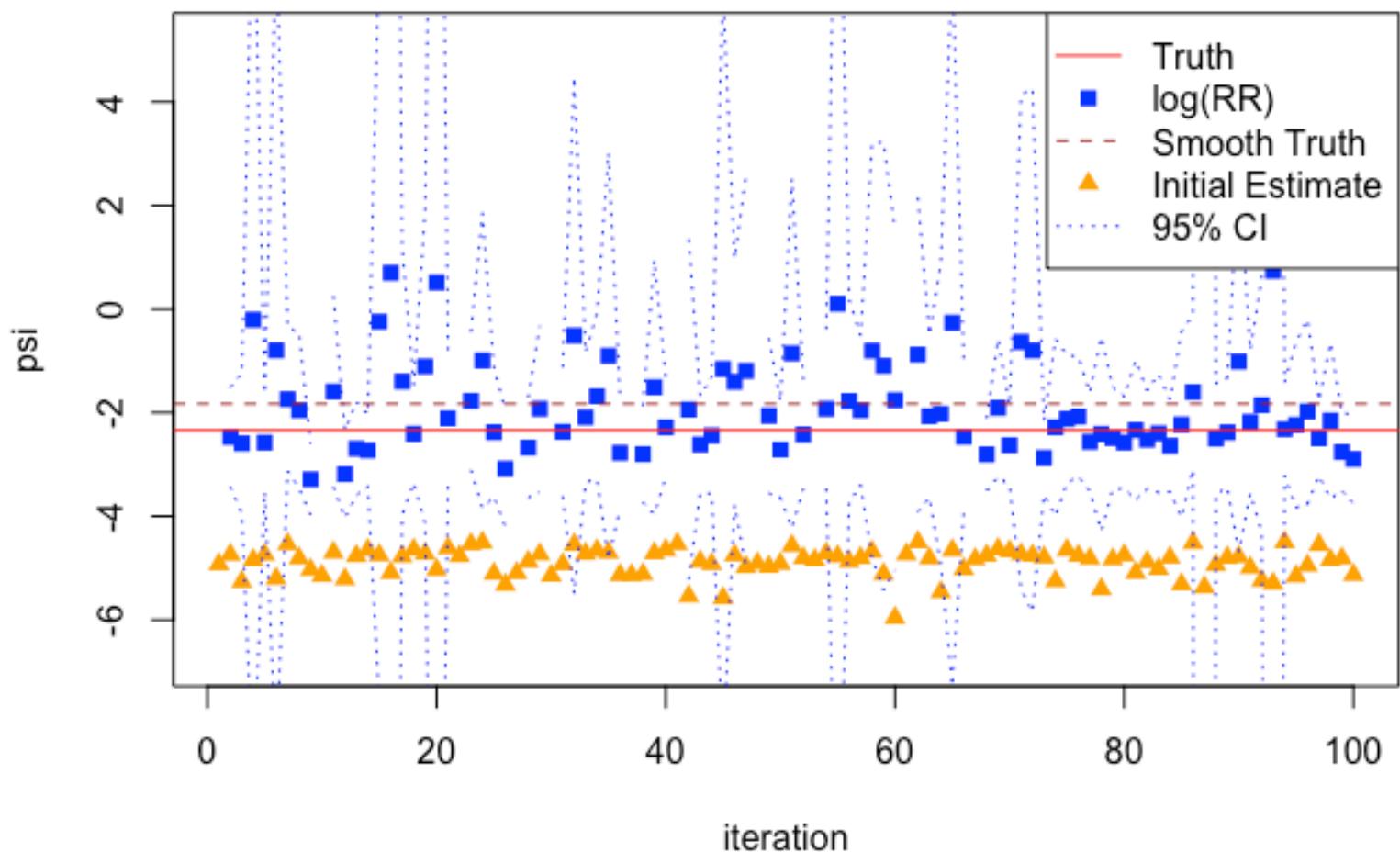
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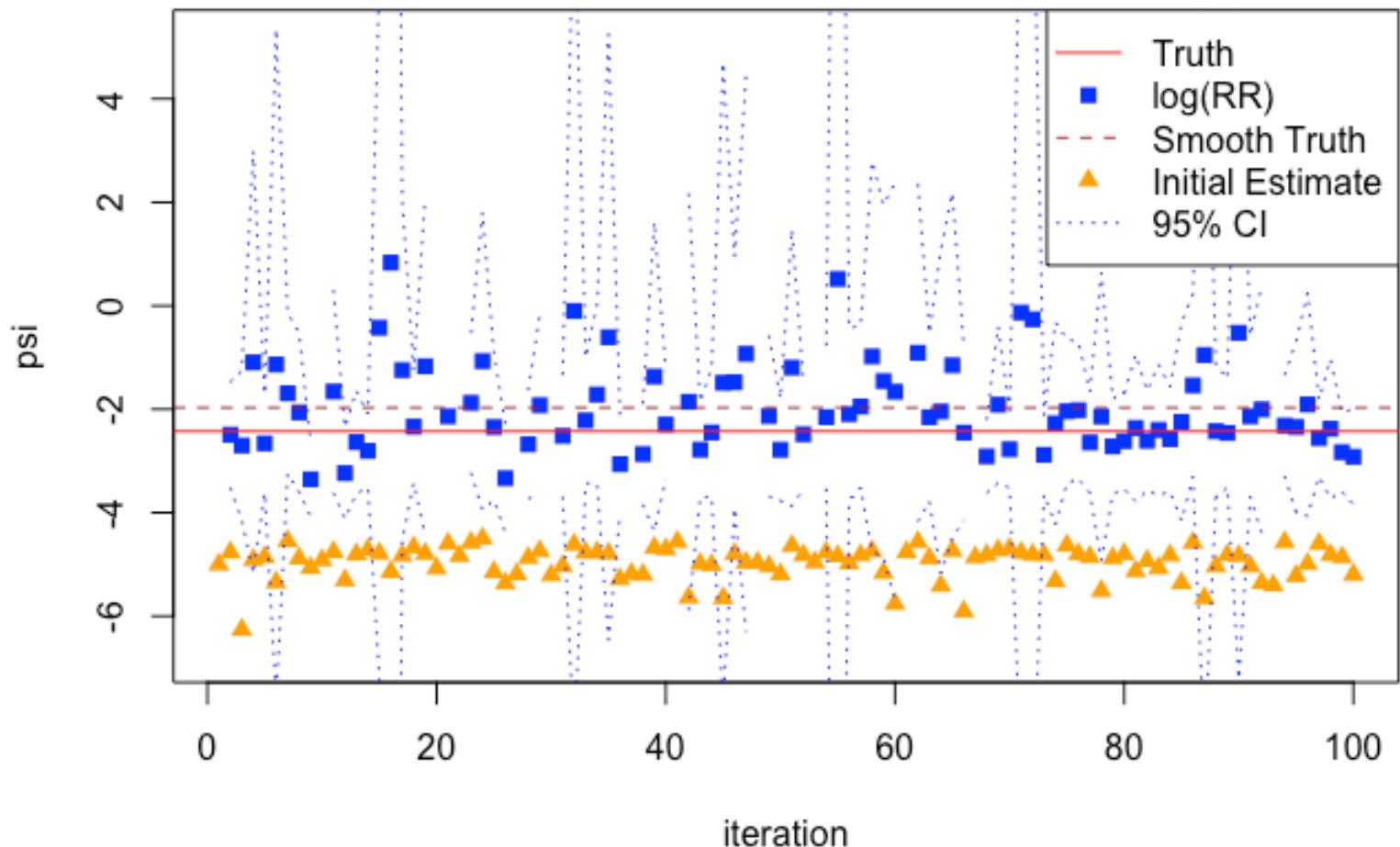
$s_1=0.6$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.25



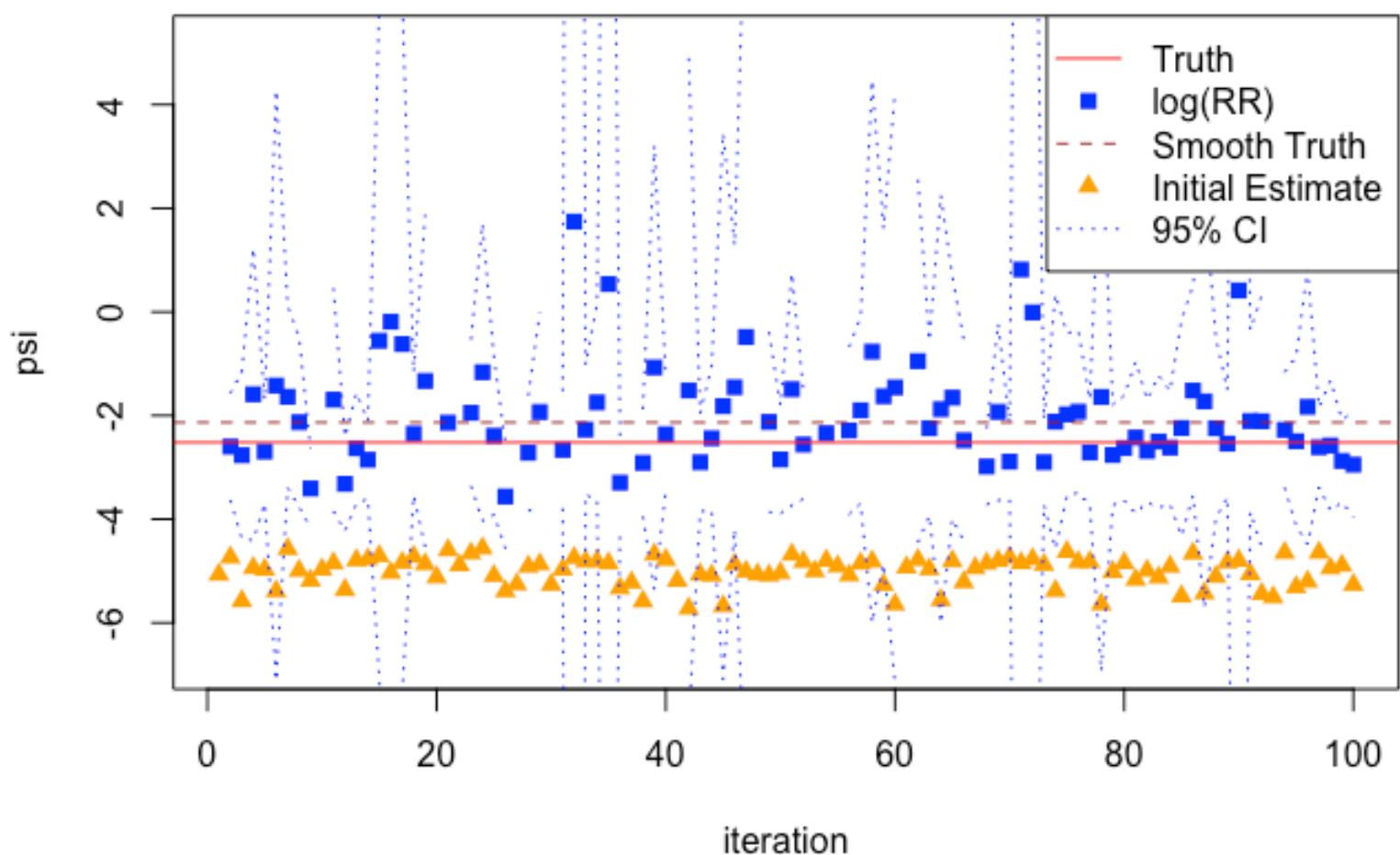
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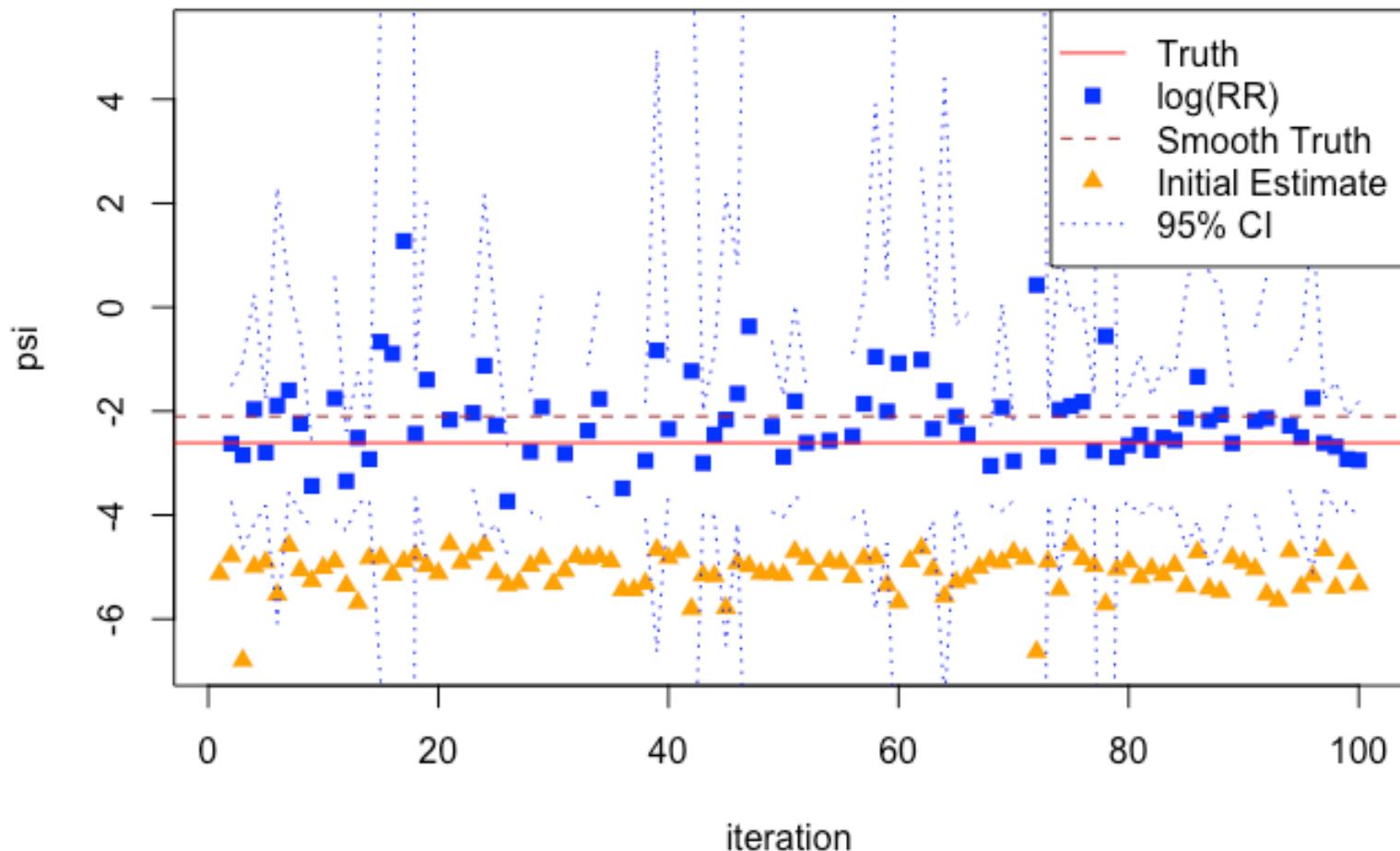
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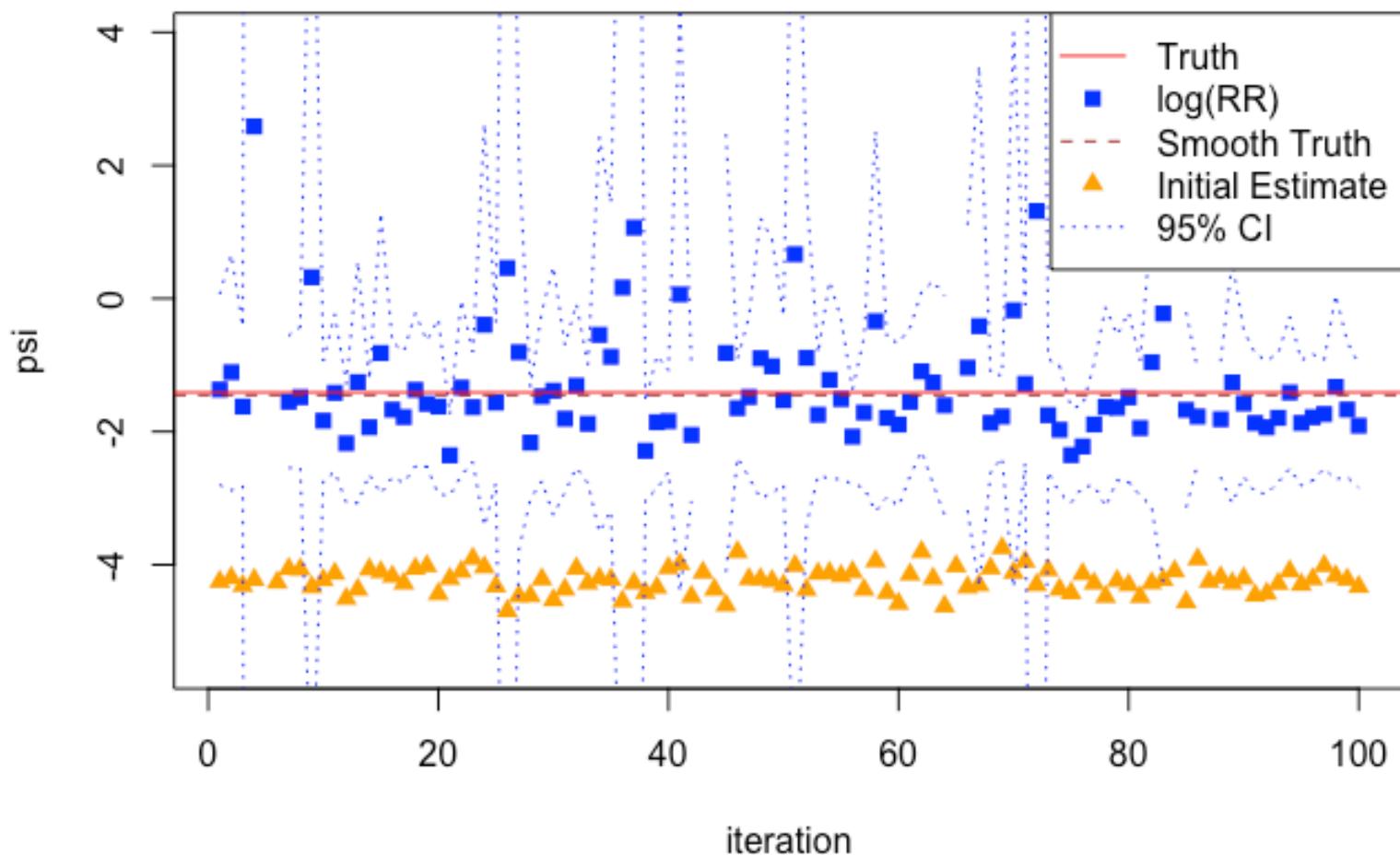
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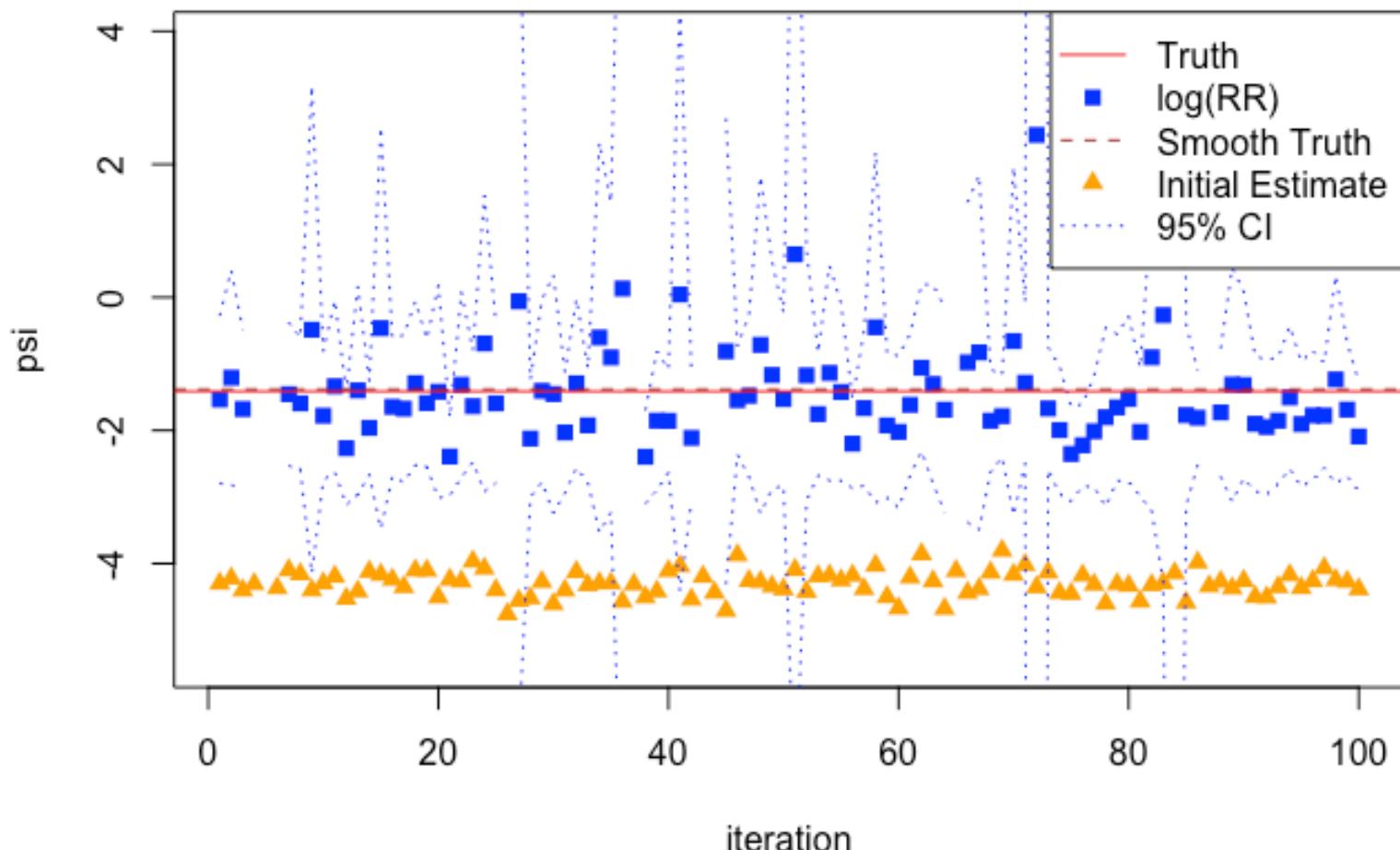
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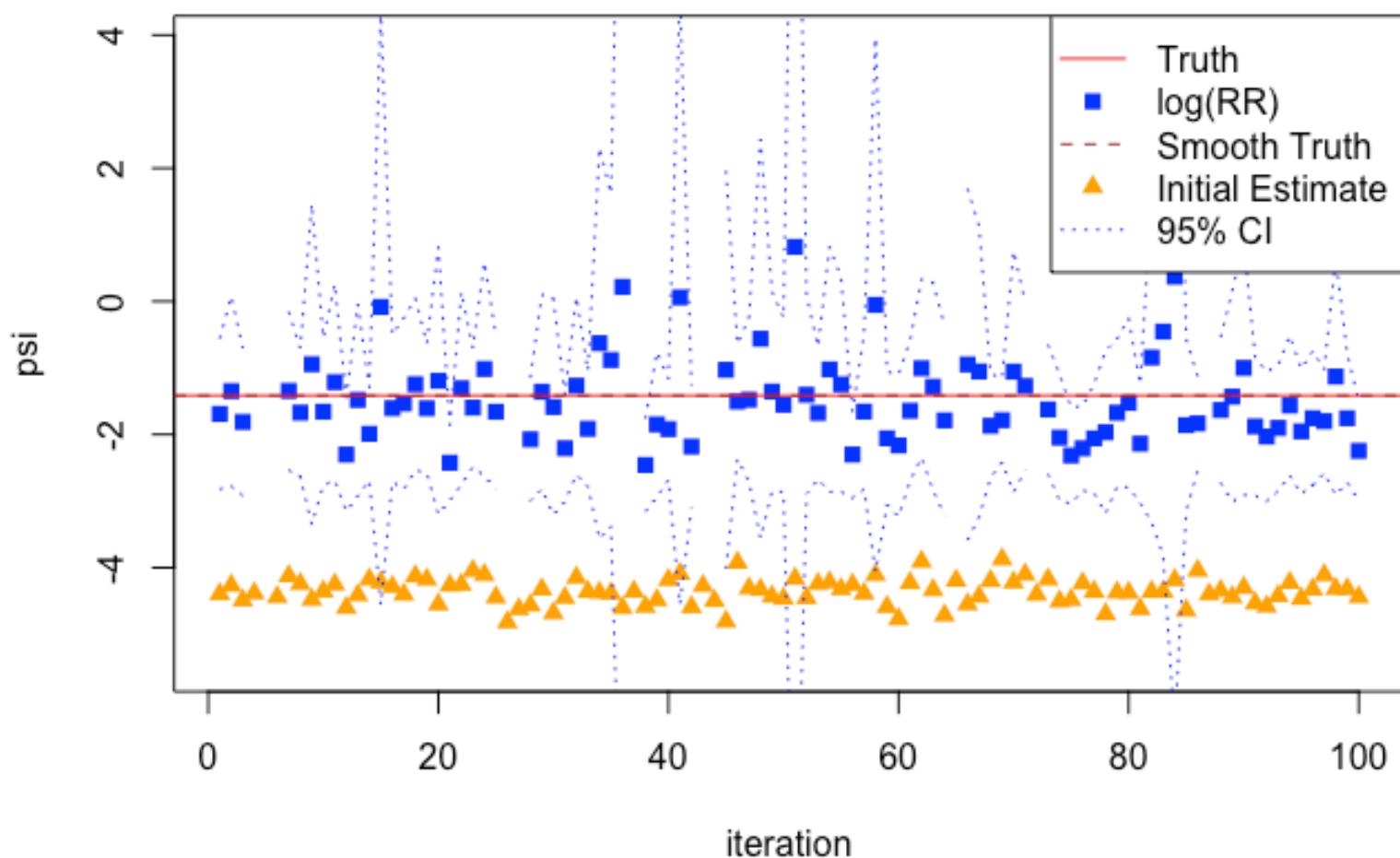
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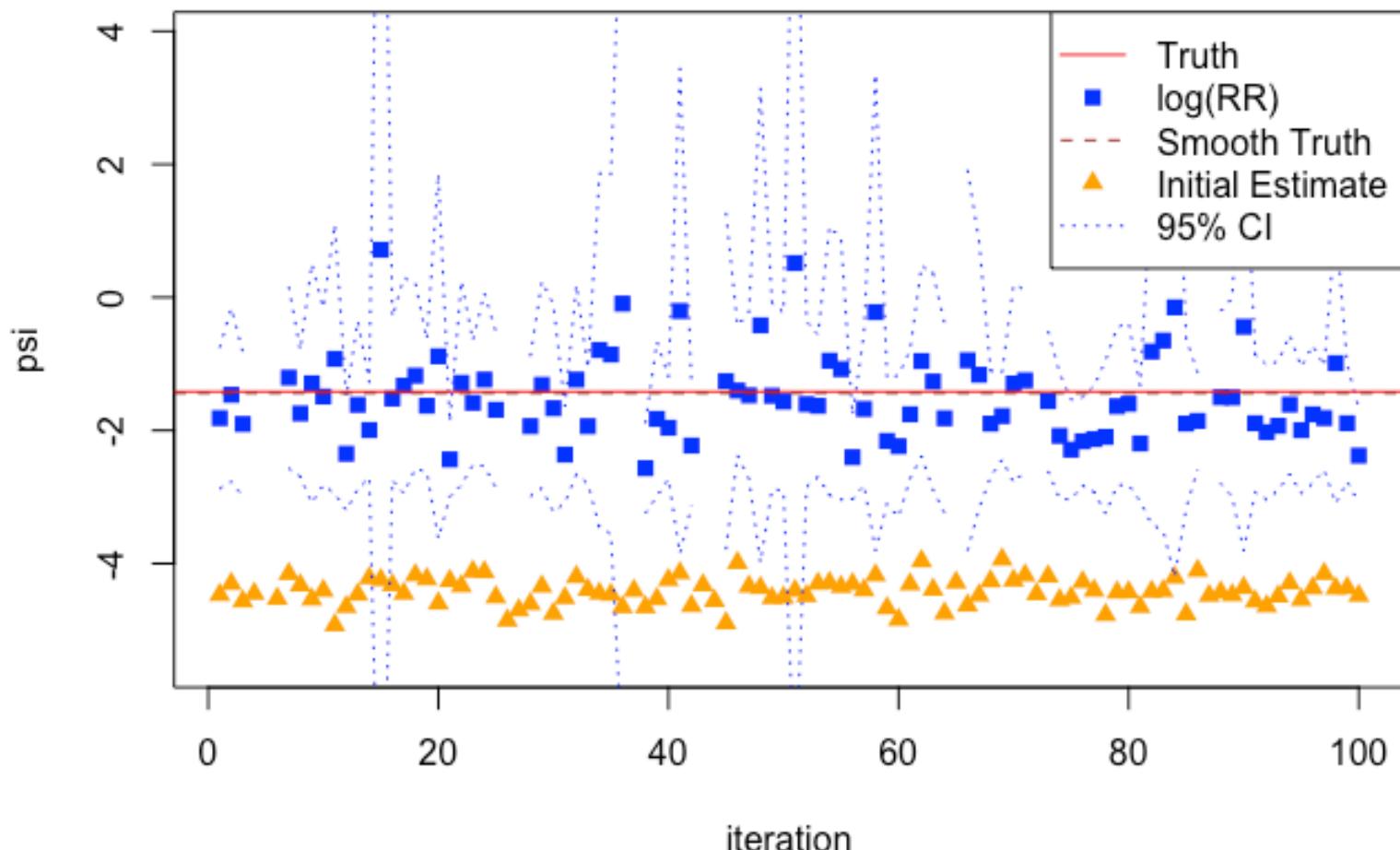
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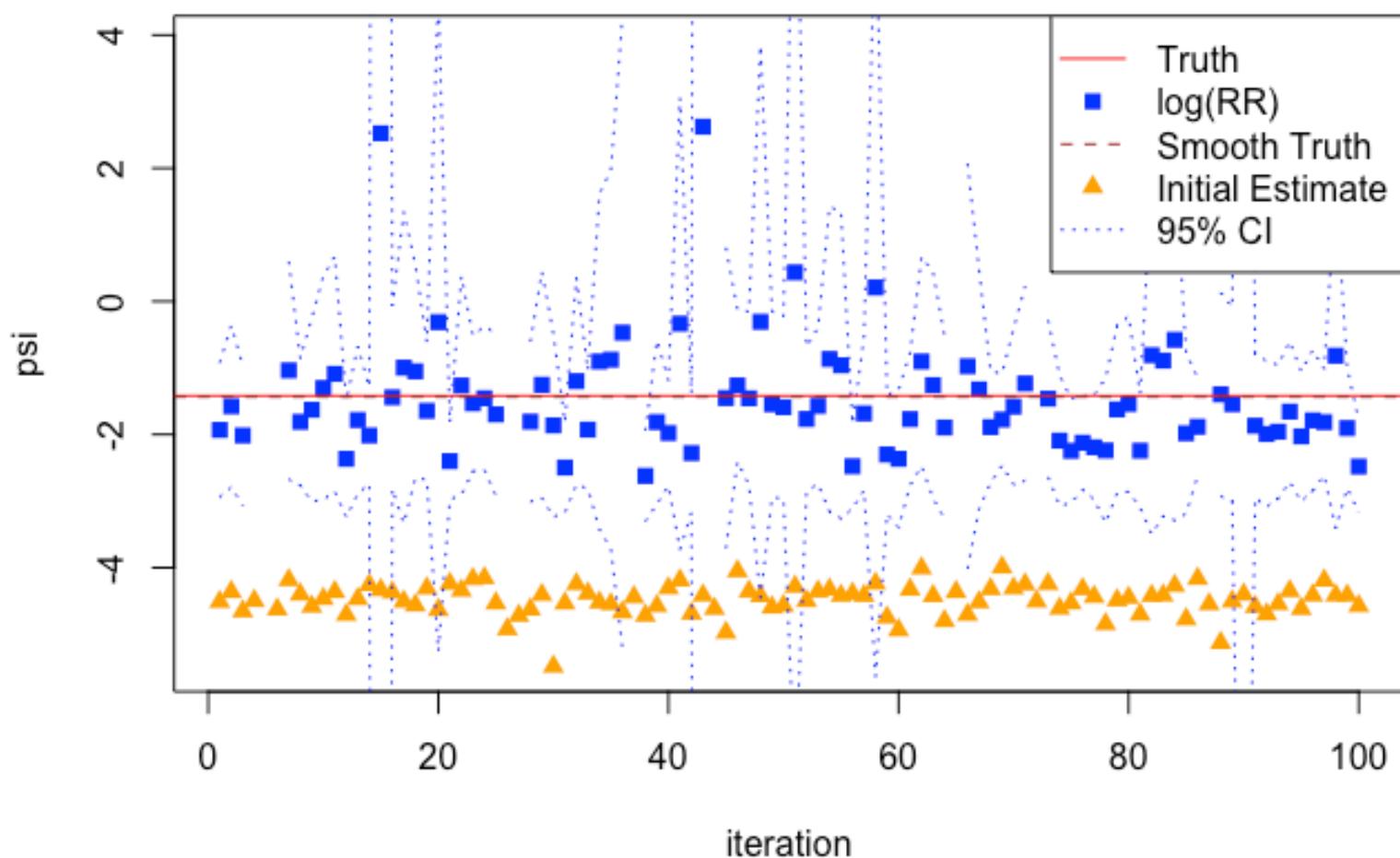
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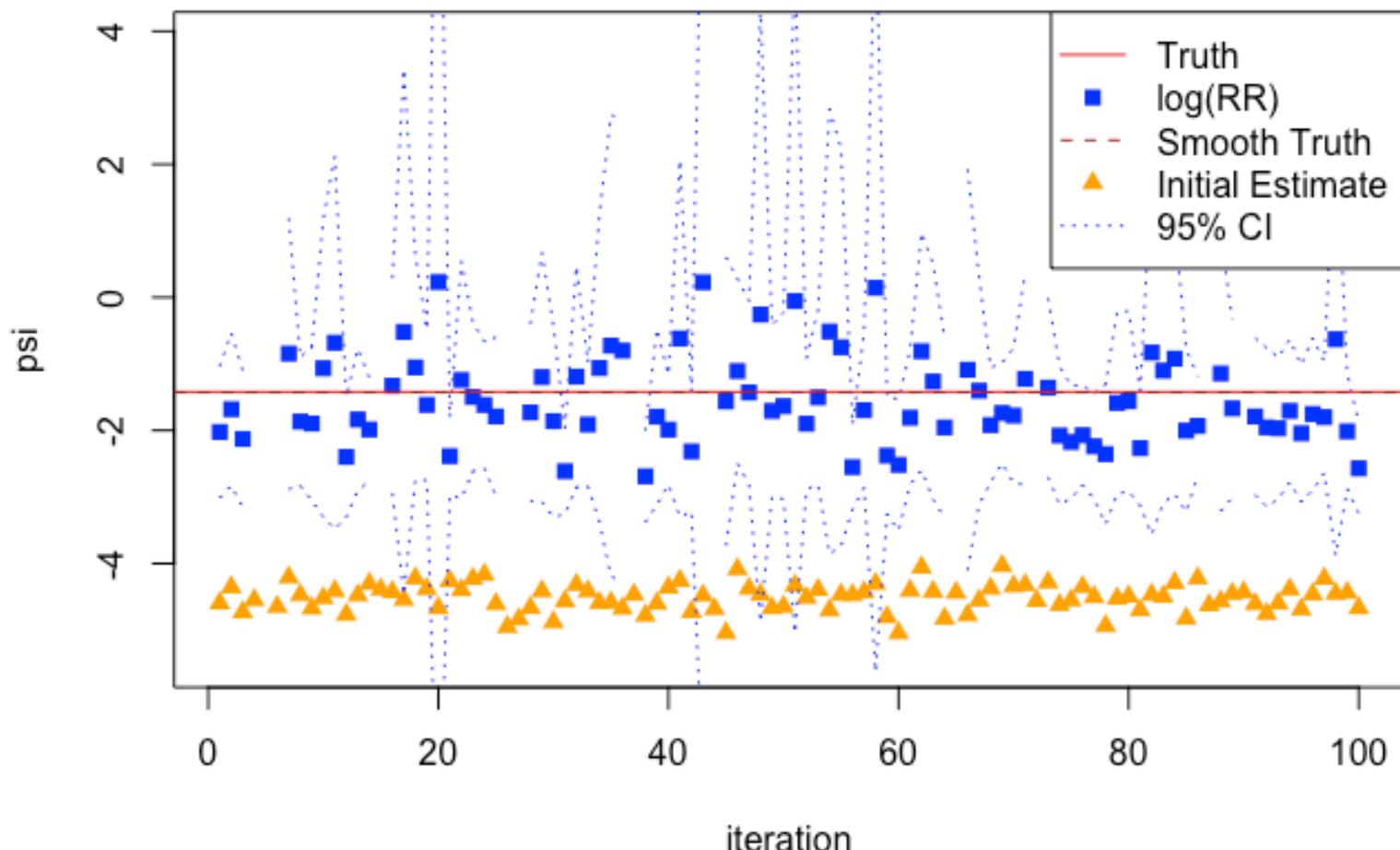
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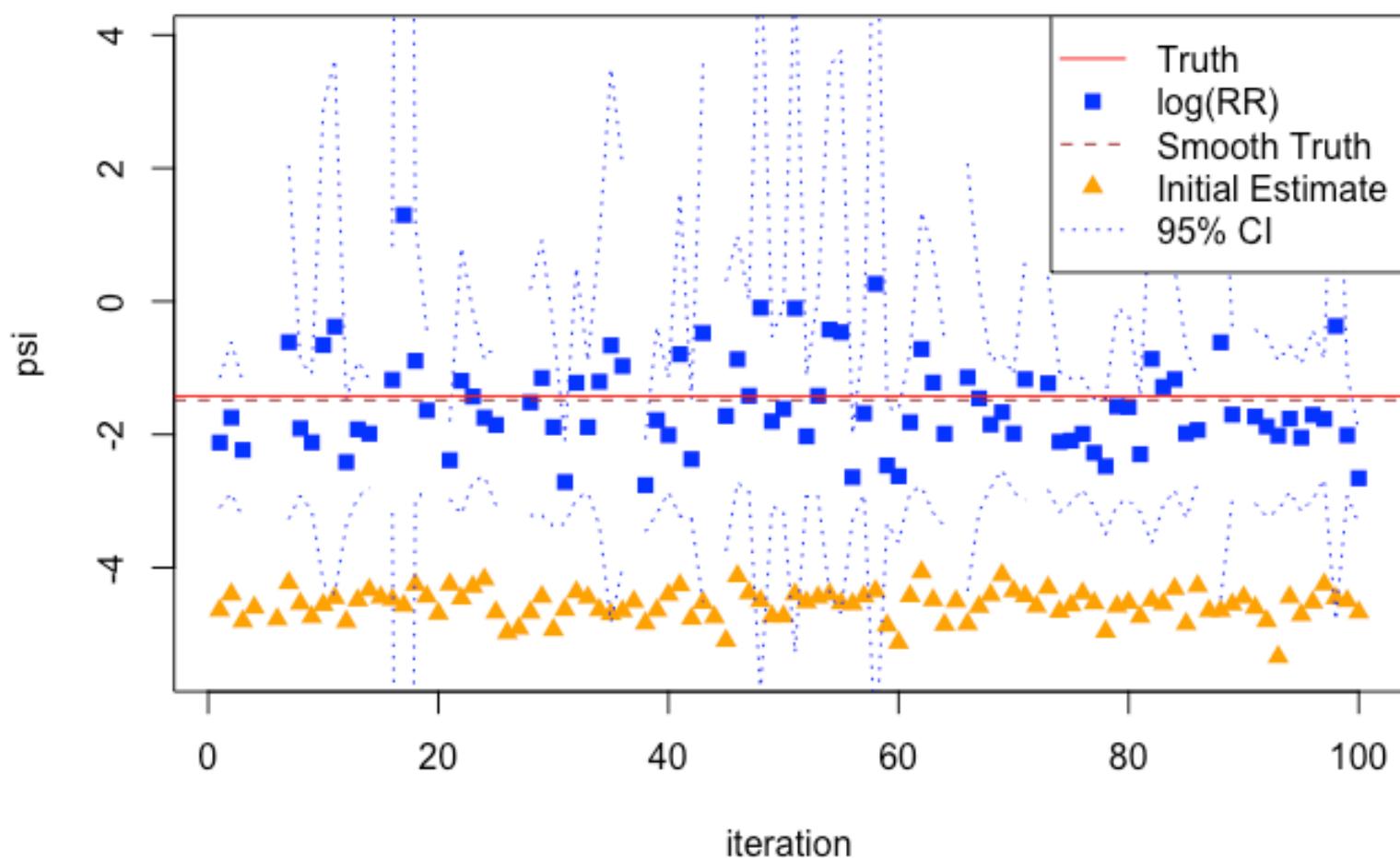
s1=0.4 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.5



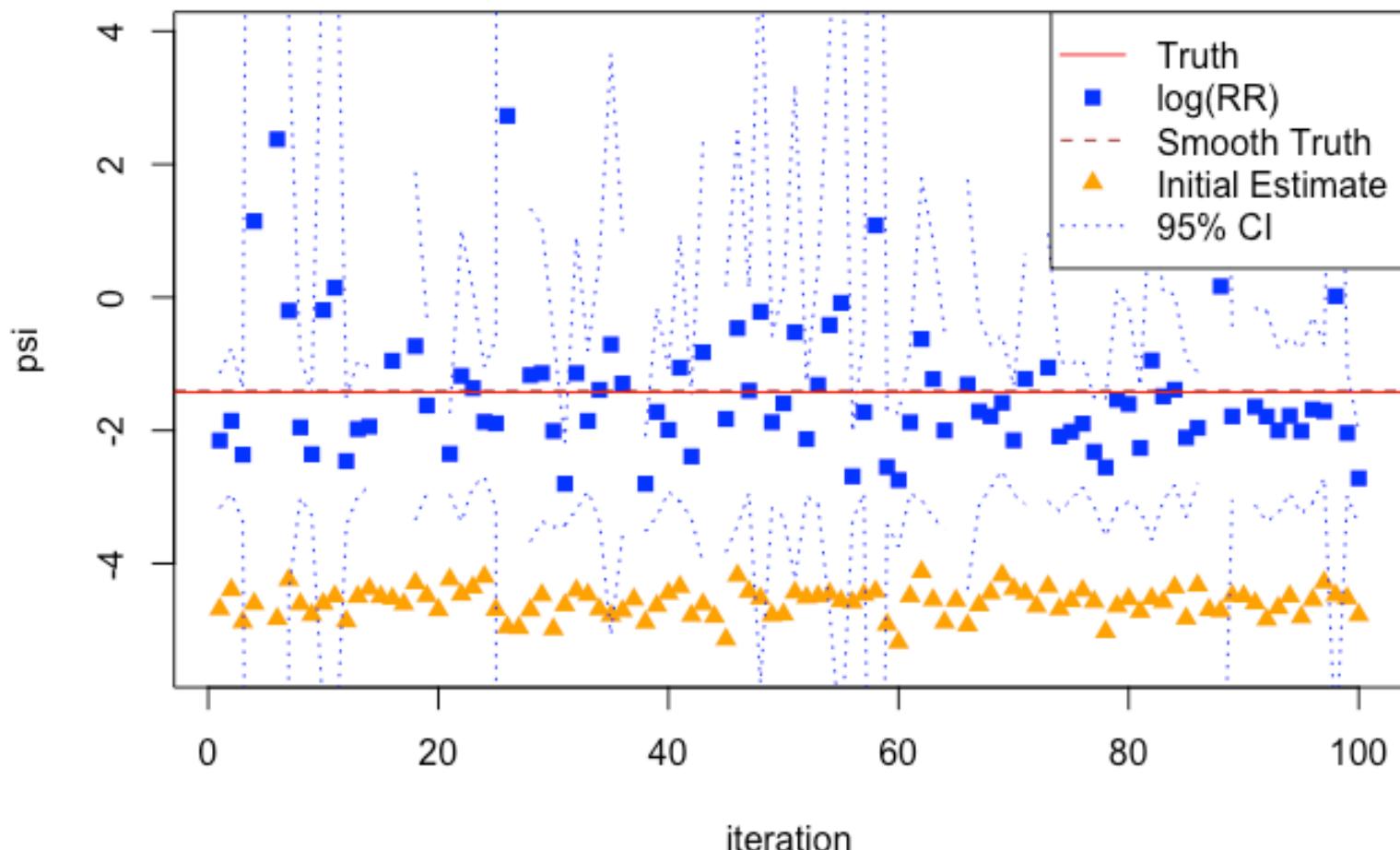
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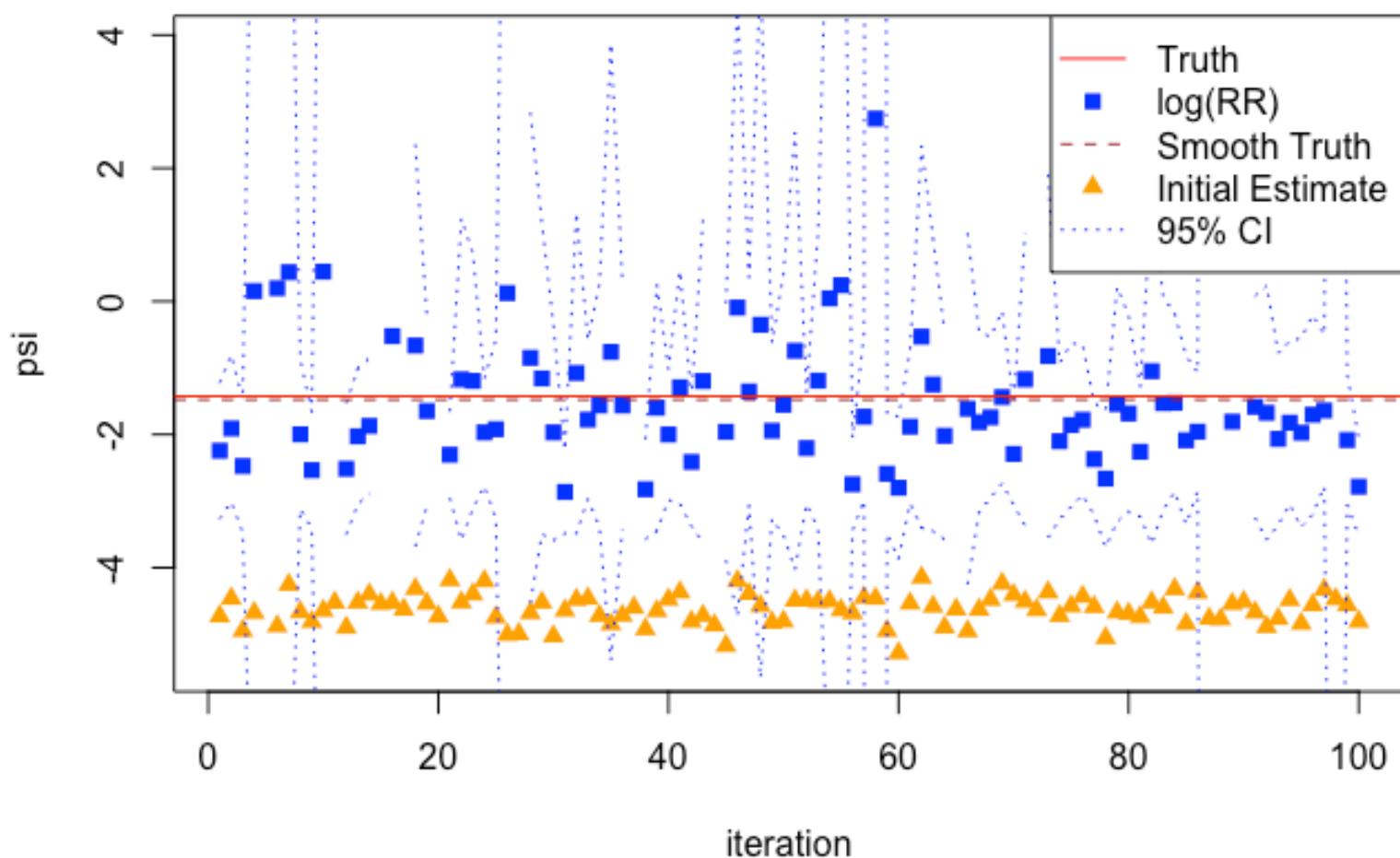
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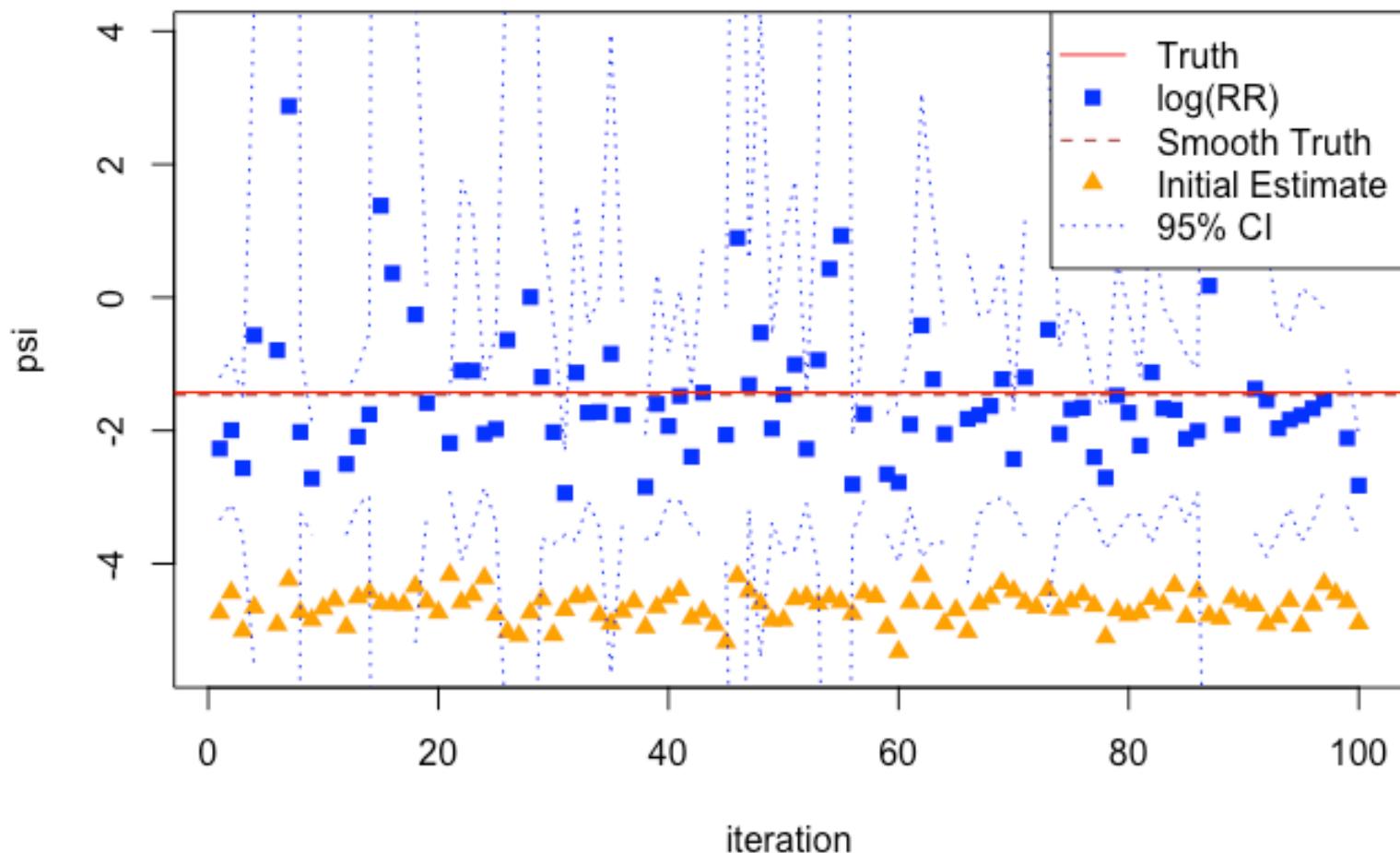
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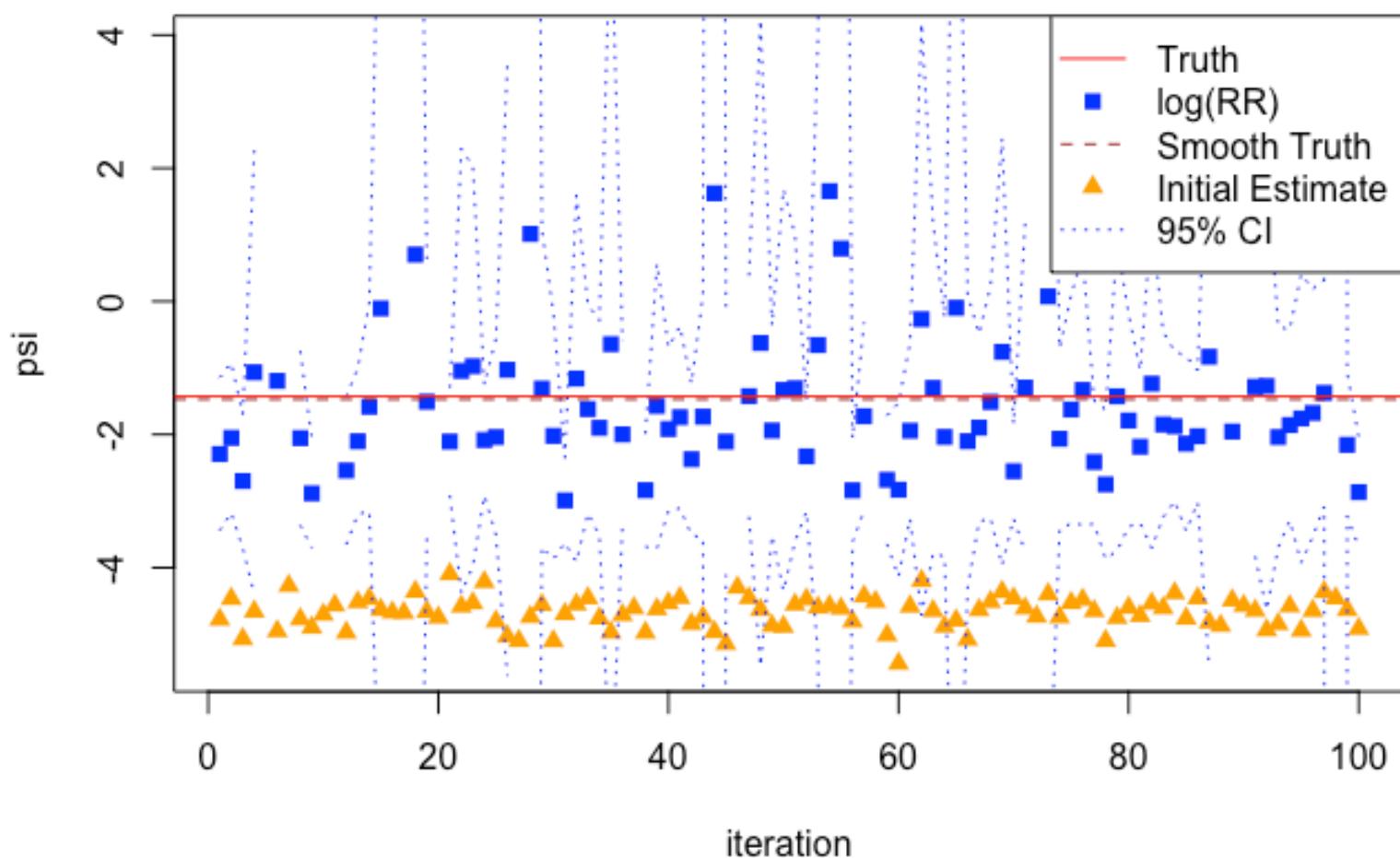
s1=0.8 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.5



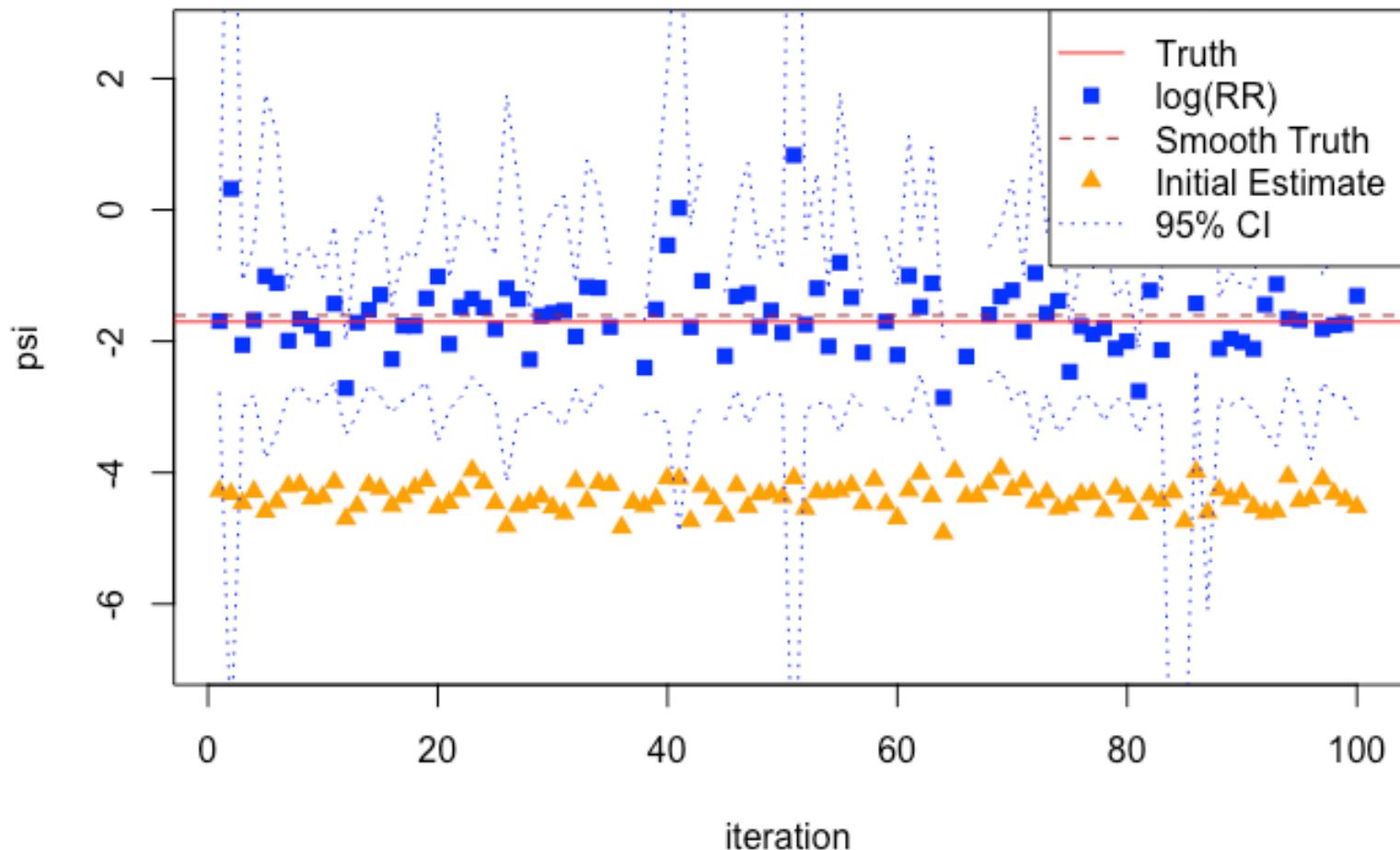
s1=0.9 Null case for cor(S1,W)=0.5, crossover rate=0.25, sample rate=0.5



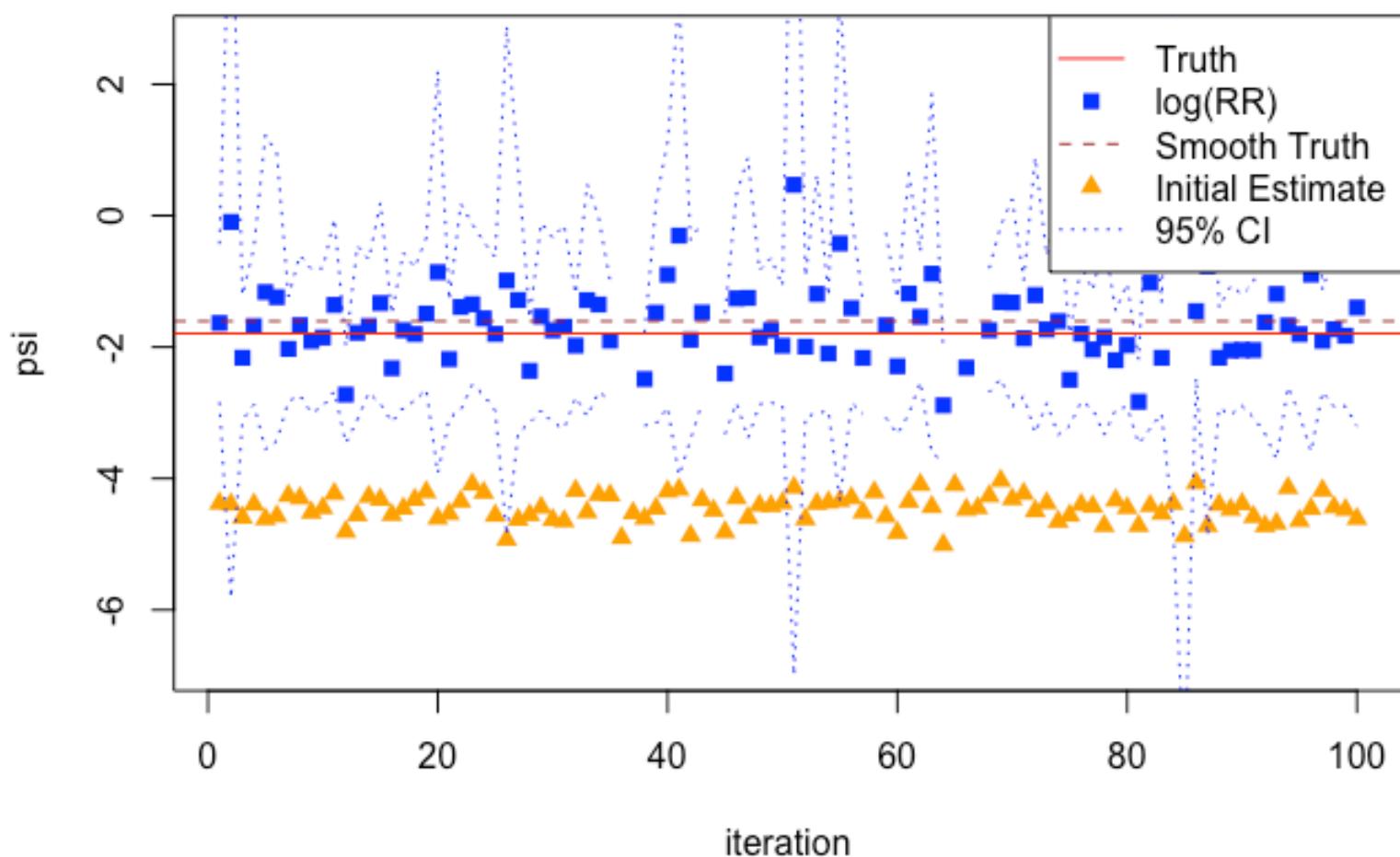
s1=1 Null case for cor(S1,W)=0.5, crossover rate=0.25, sample rate=0.5



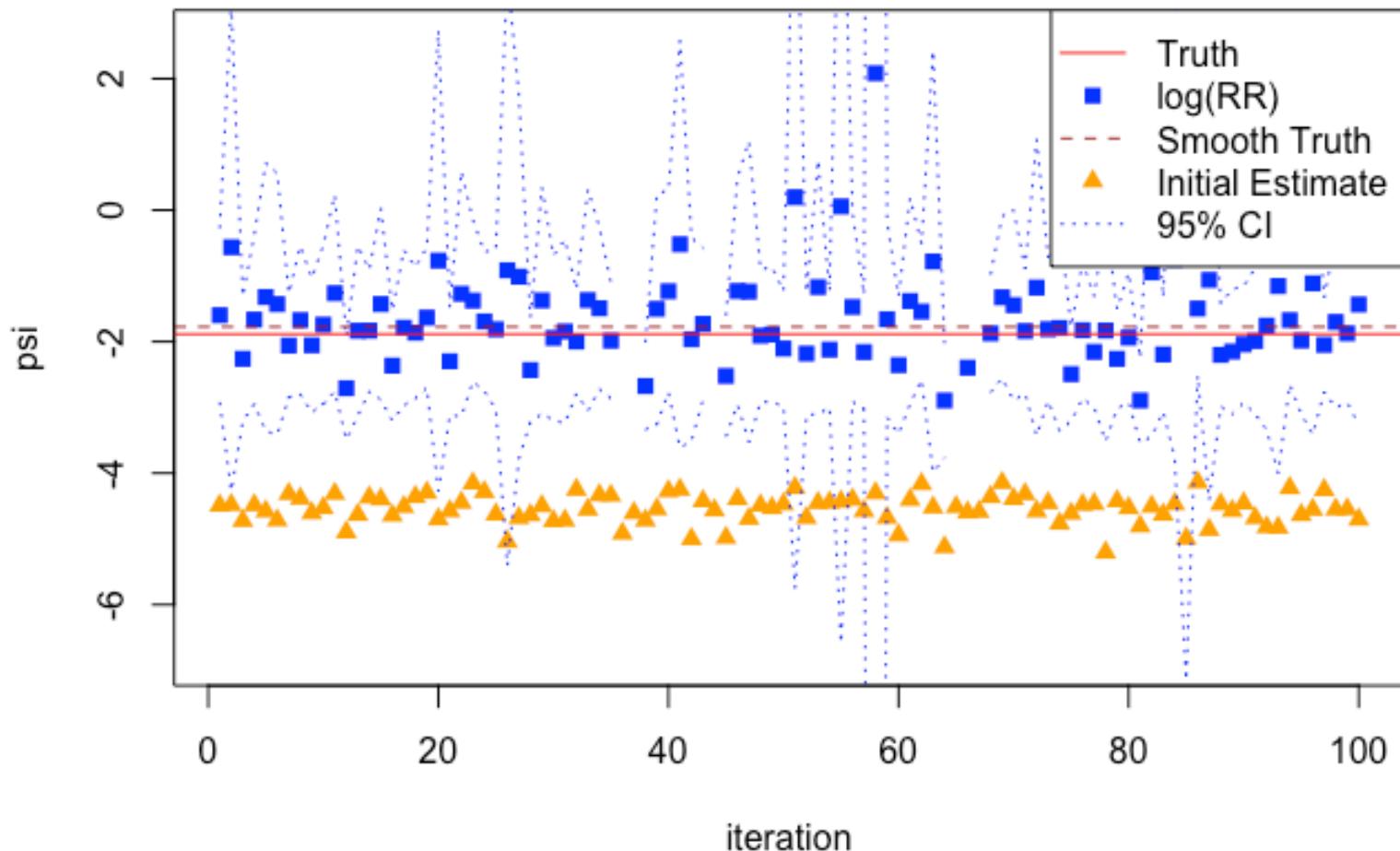
s1=0 Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.5



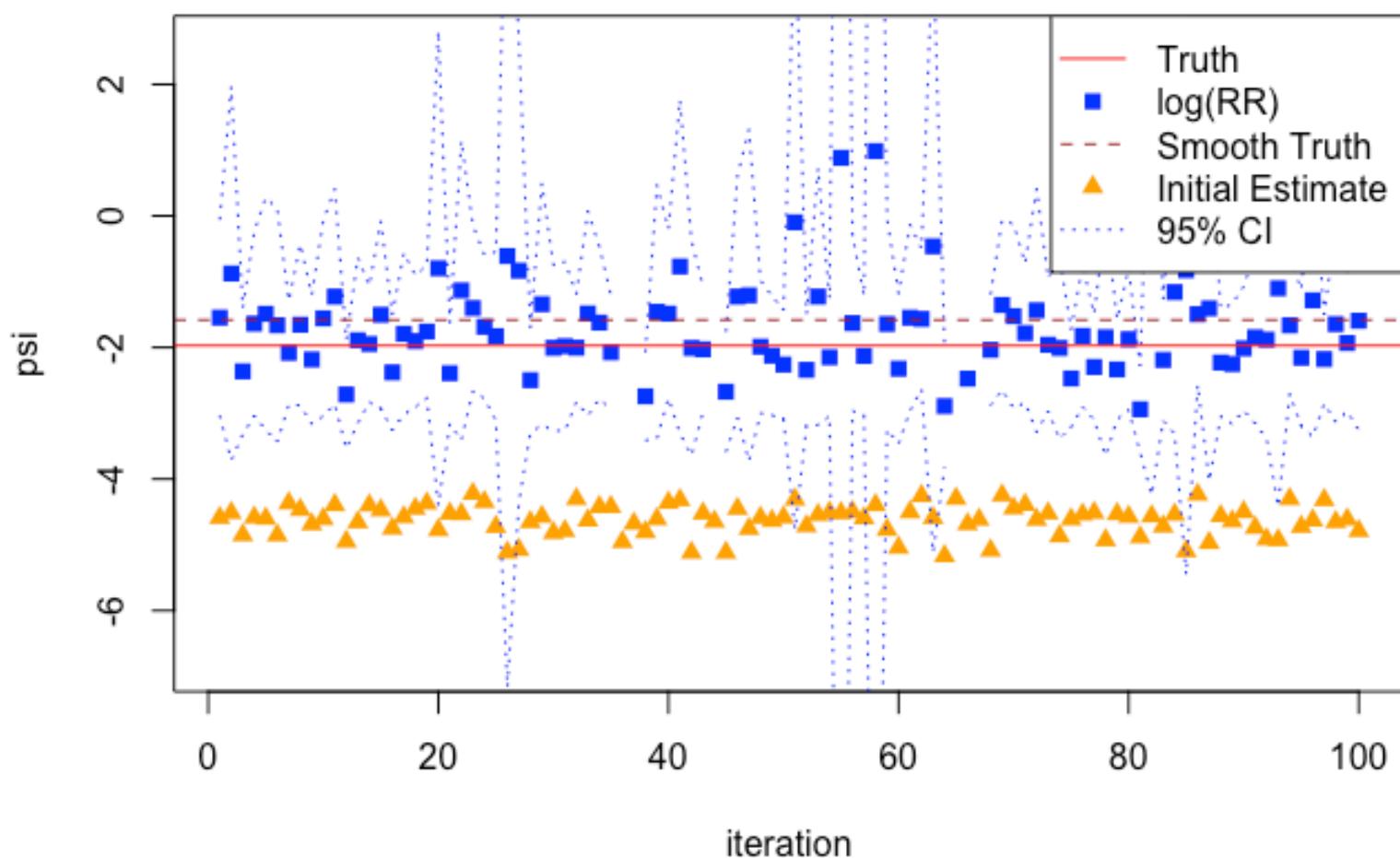
s1=0.1 Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.5



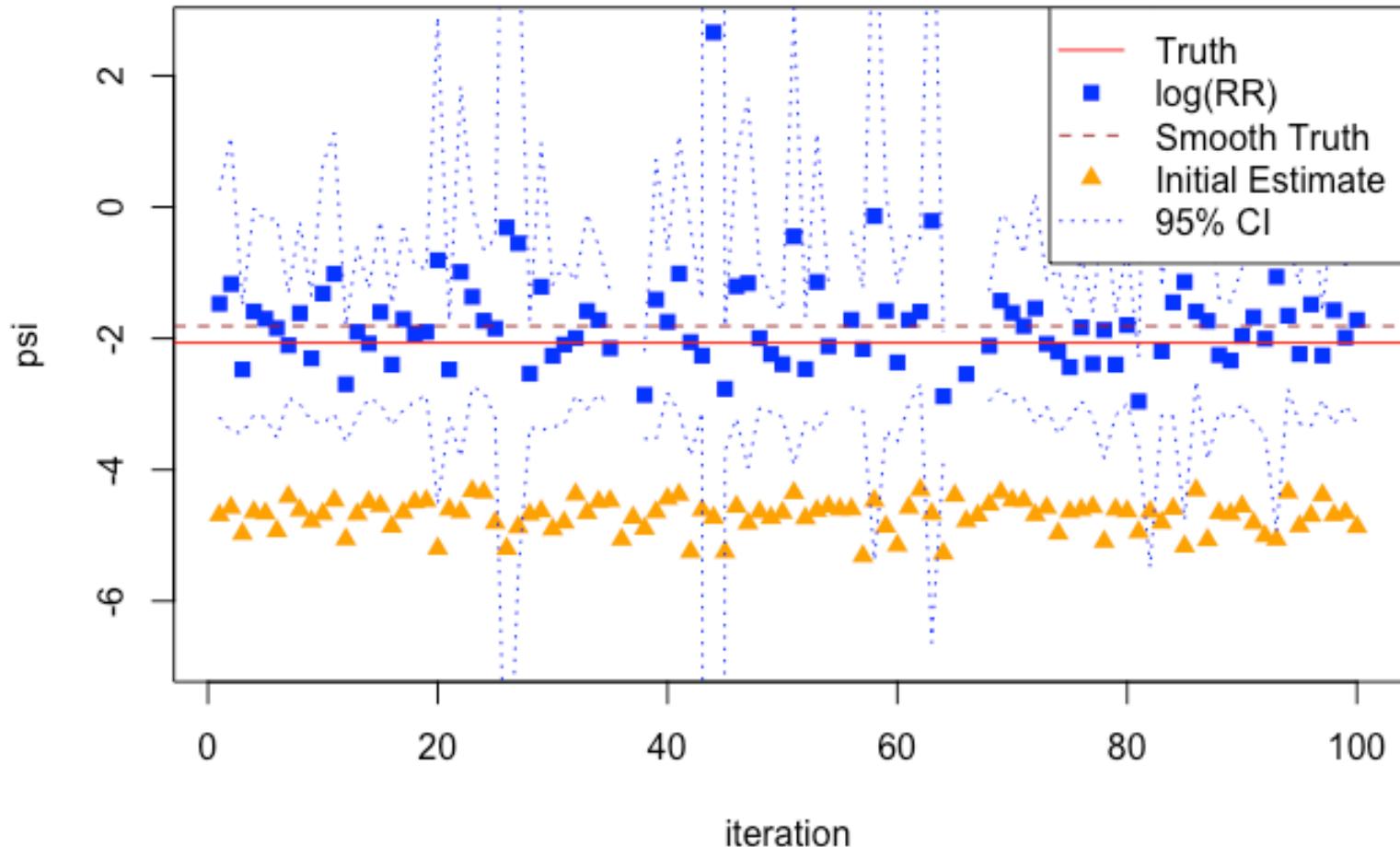
$s_1=0.2$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.5



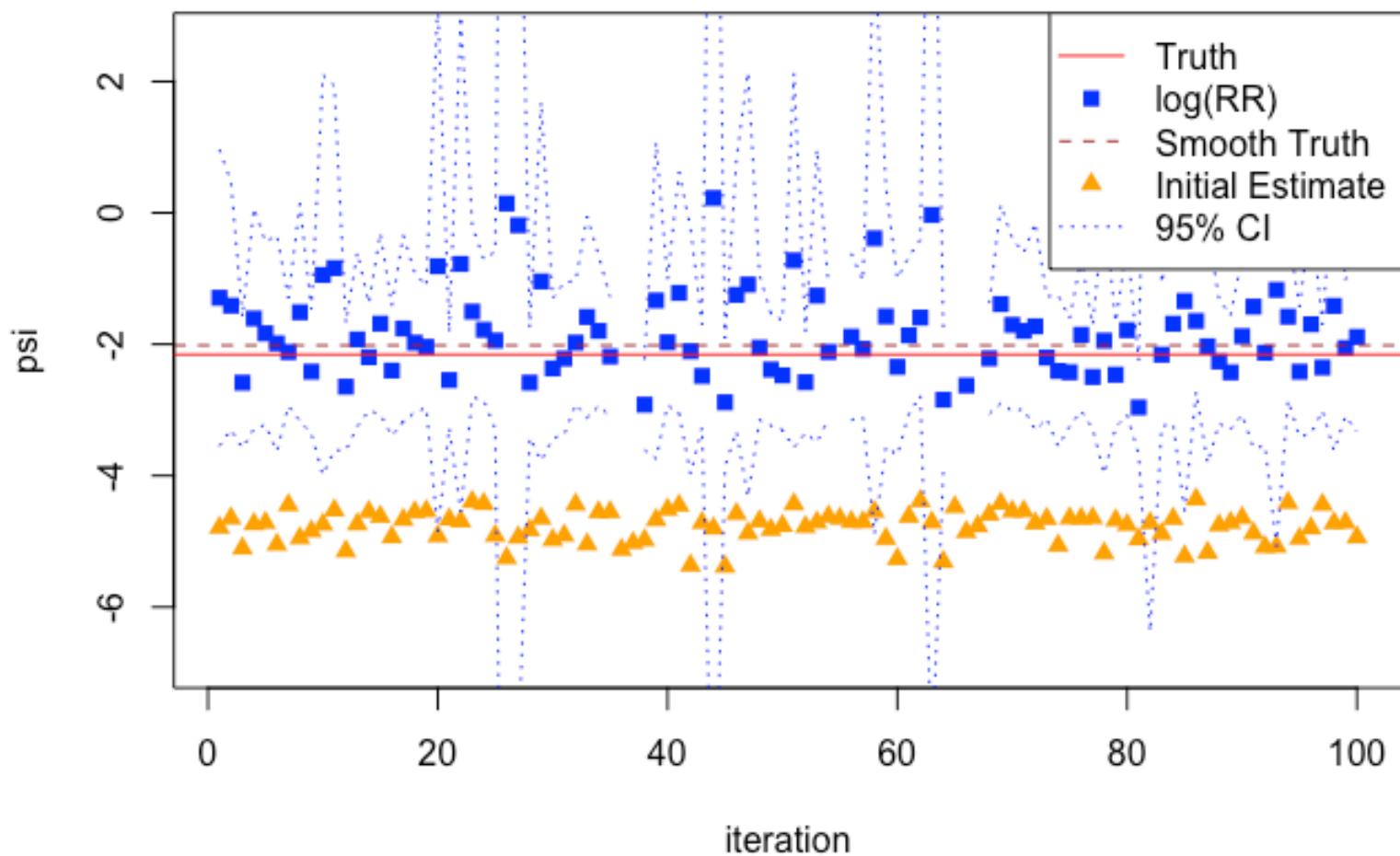
$s_1=0.3$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.5



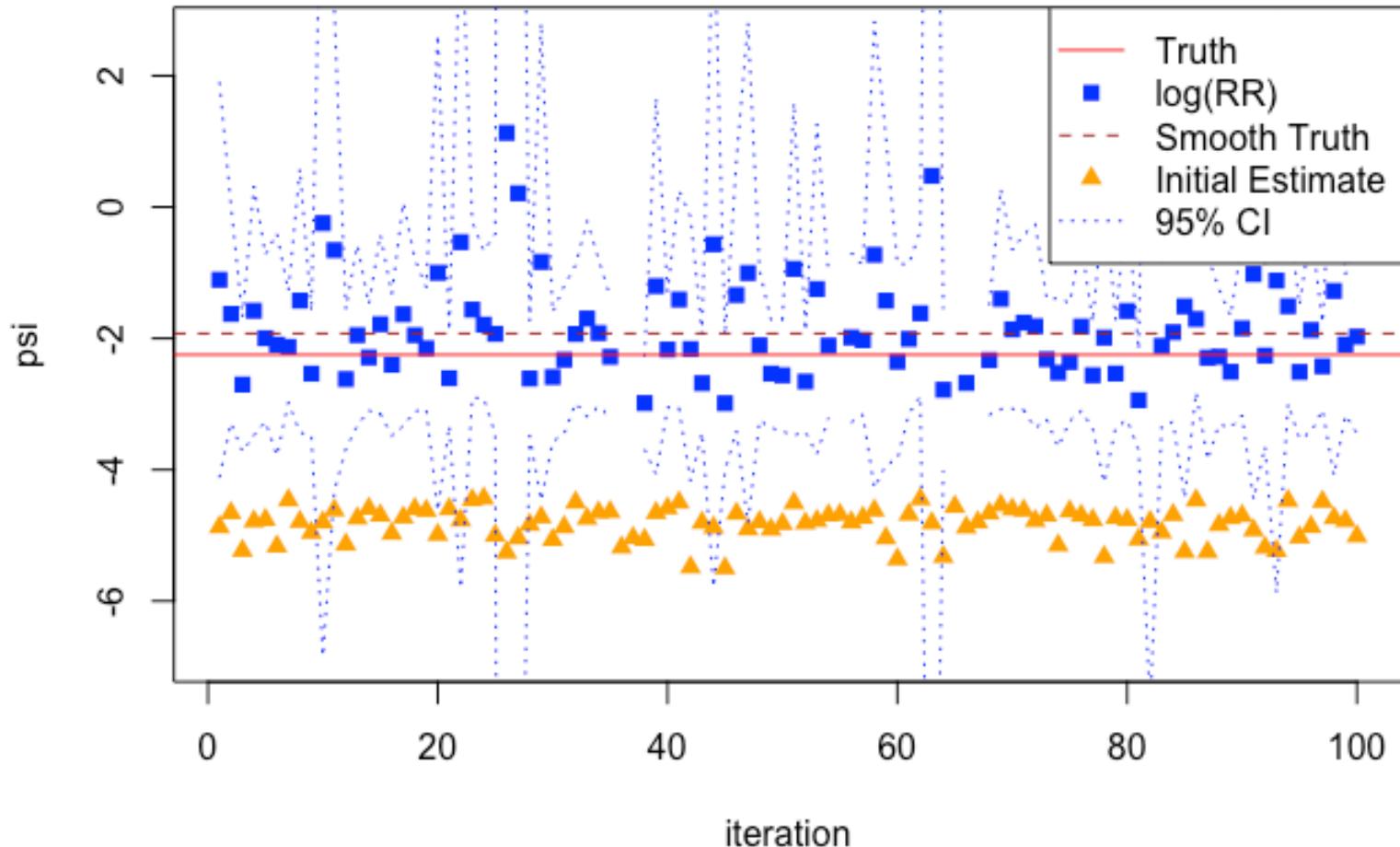
$s_1=0.4$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.5



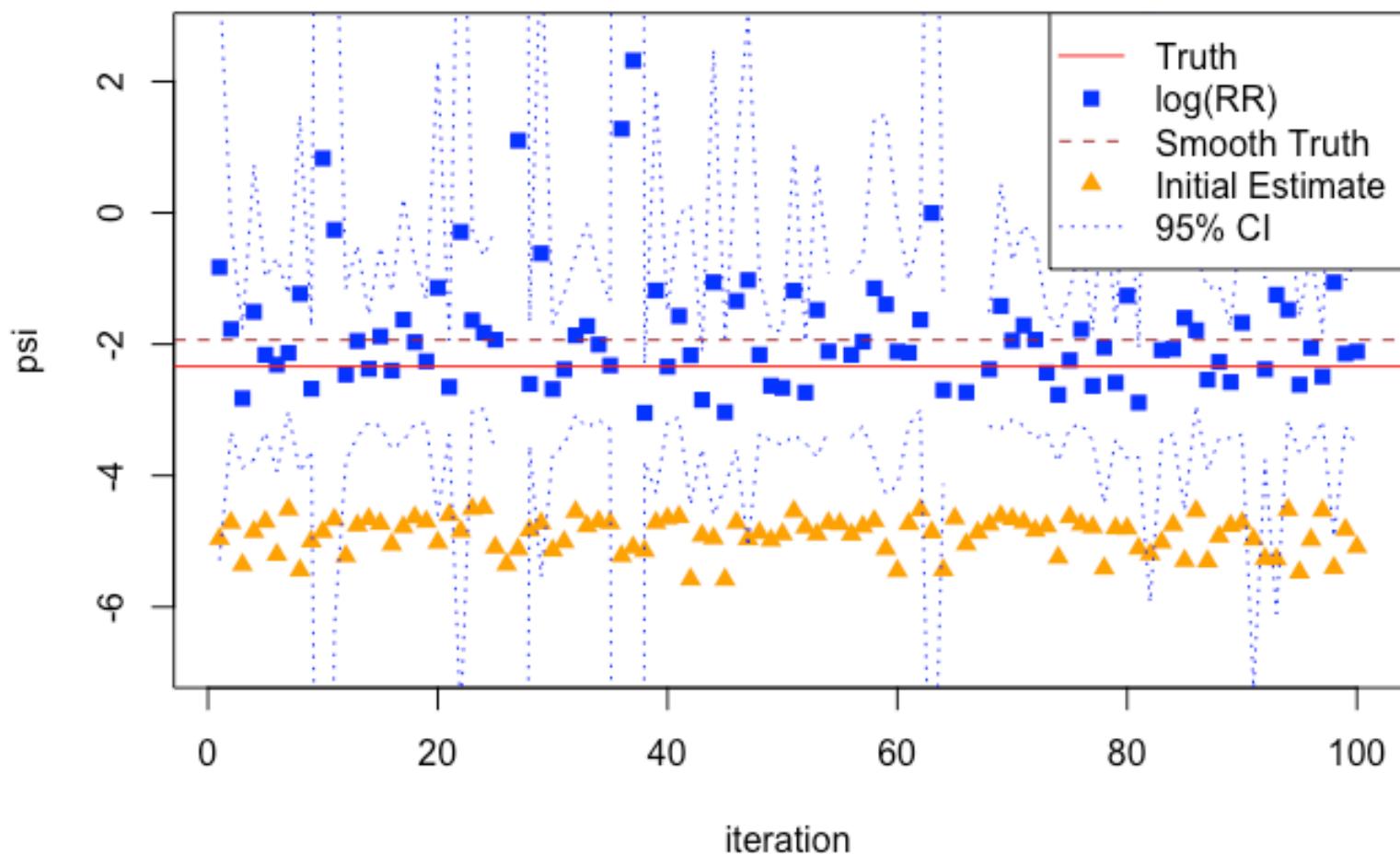
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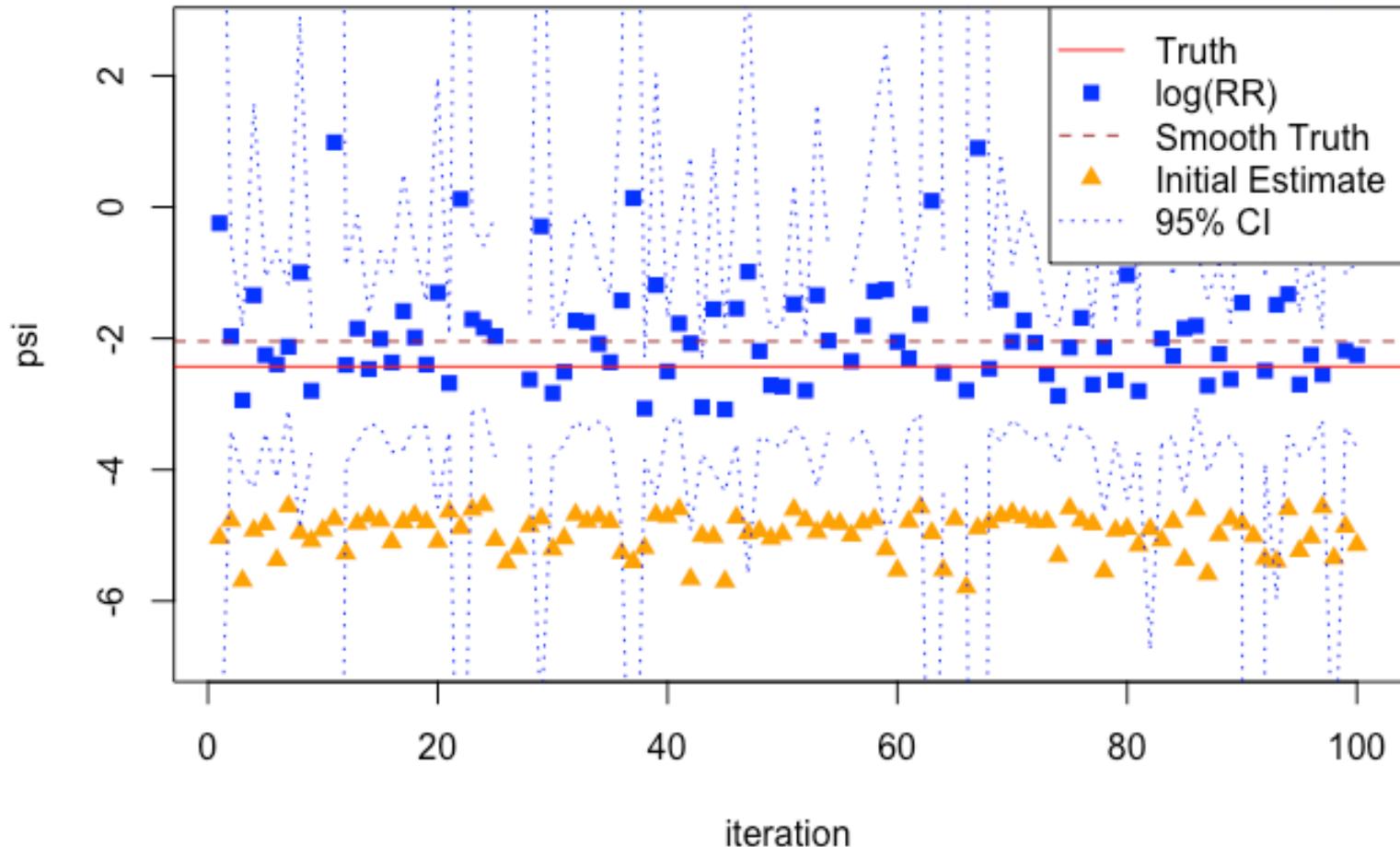
$s_1=0.6$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.5



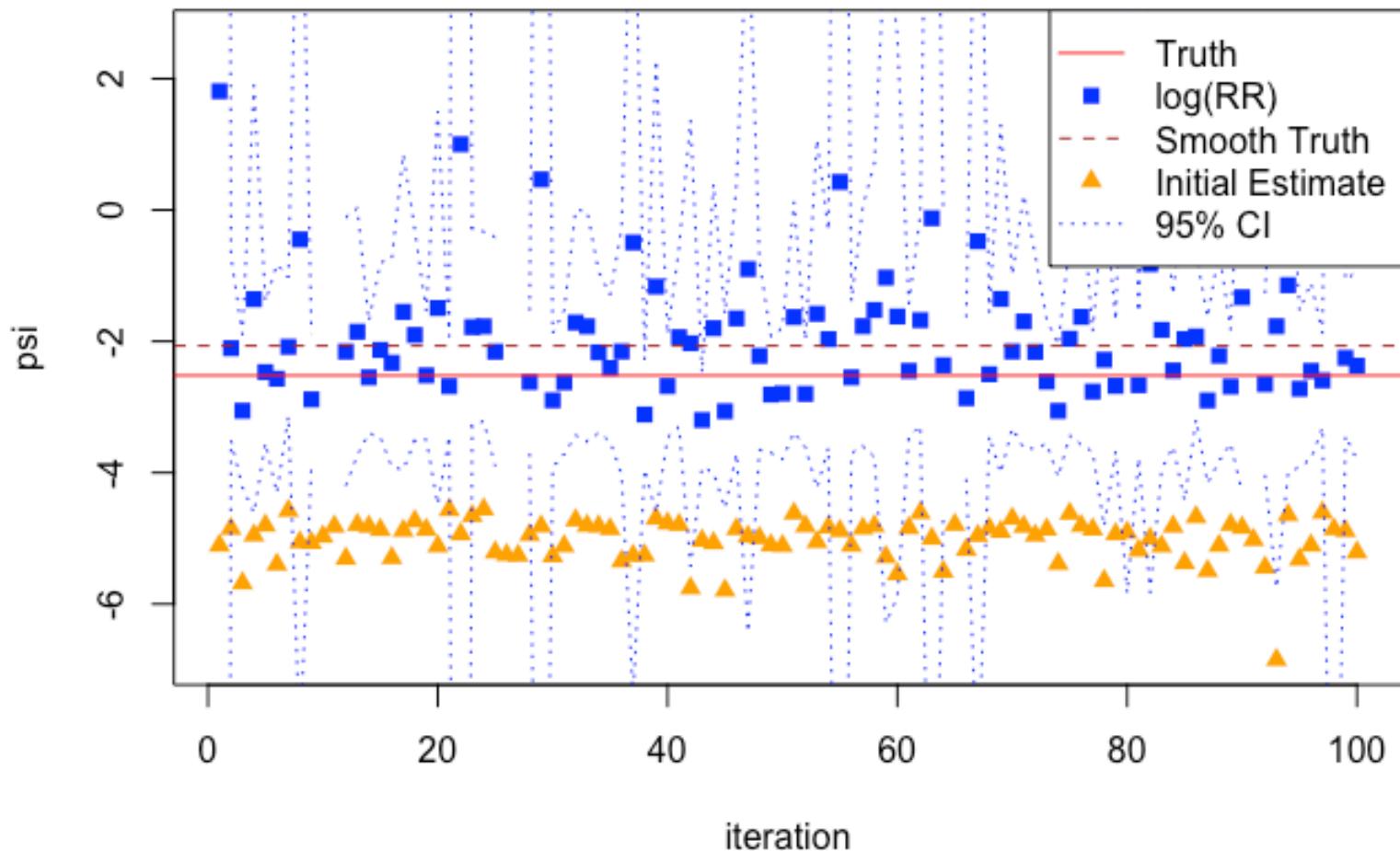
$s_1=0.7$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=0.5



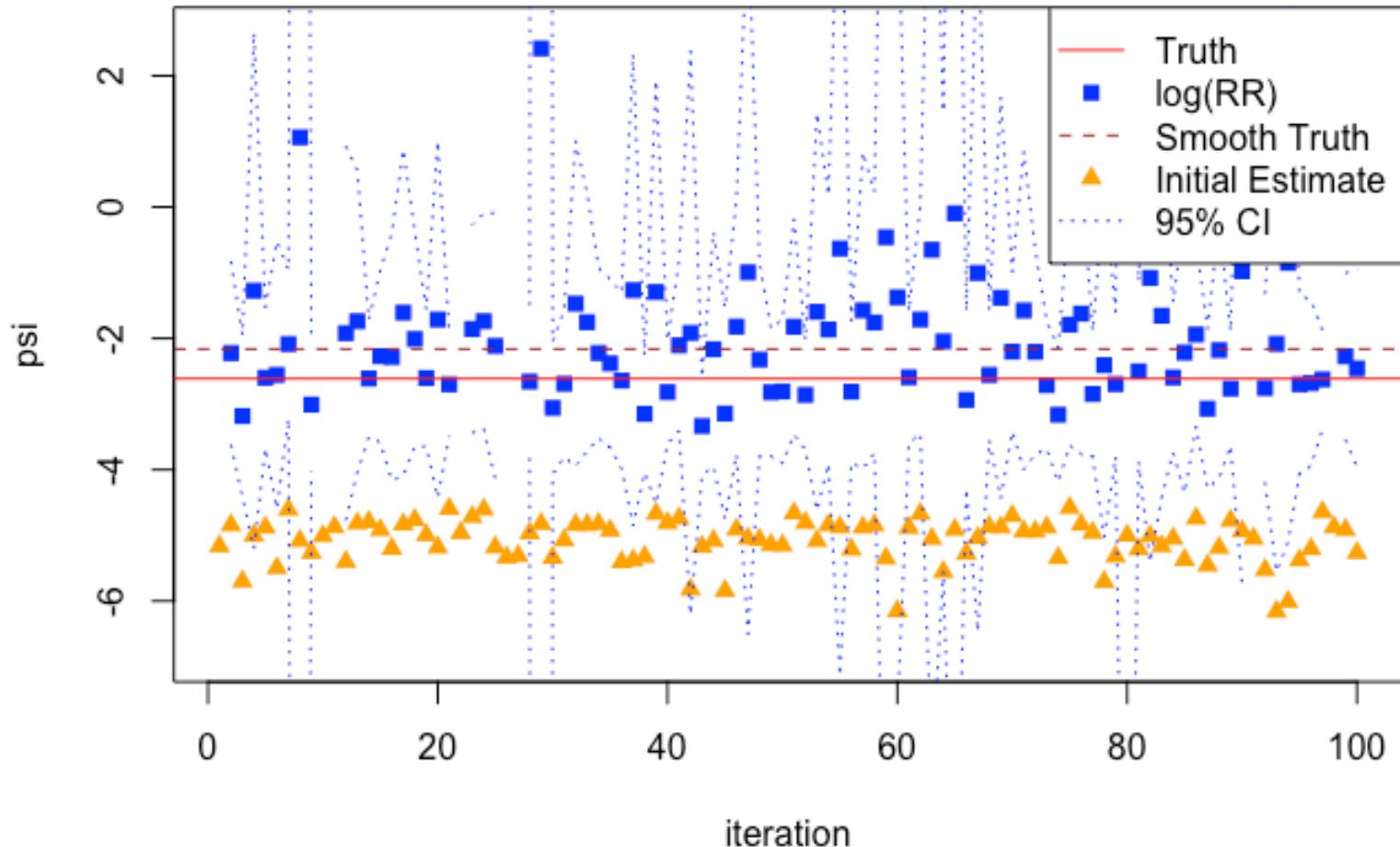
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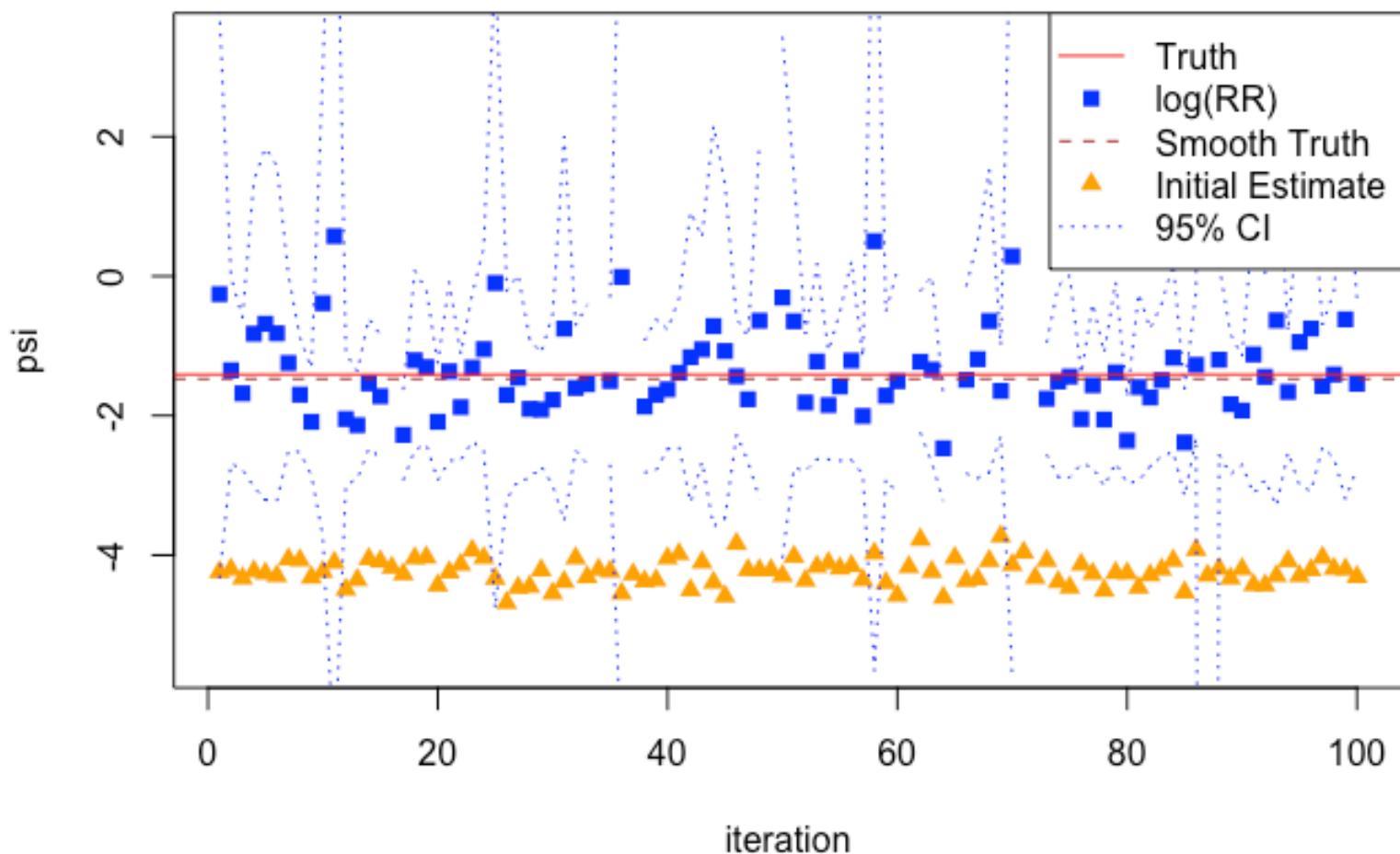
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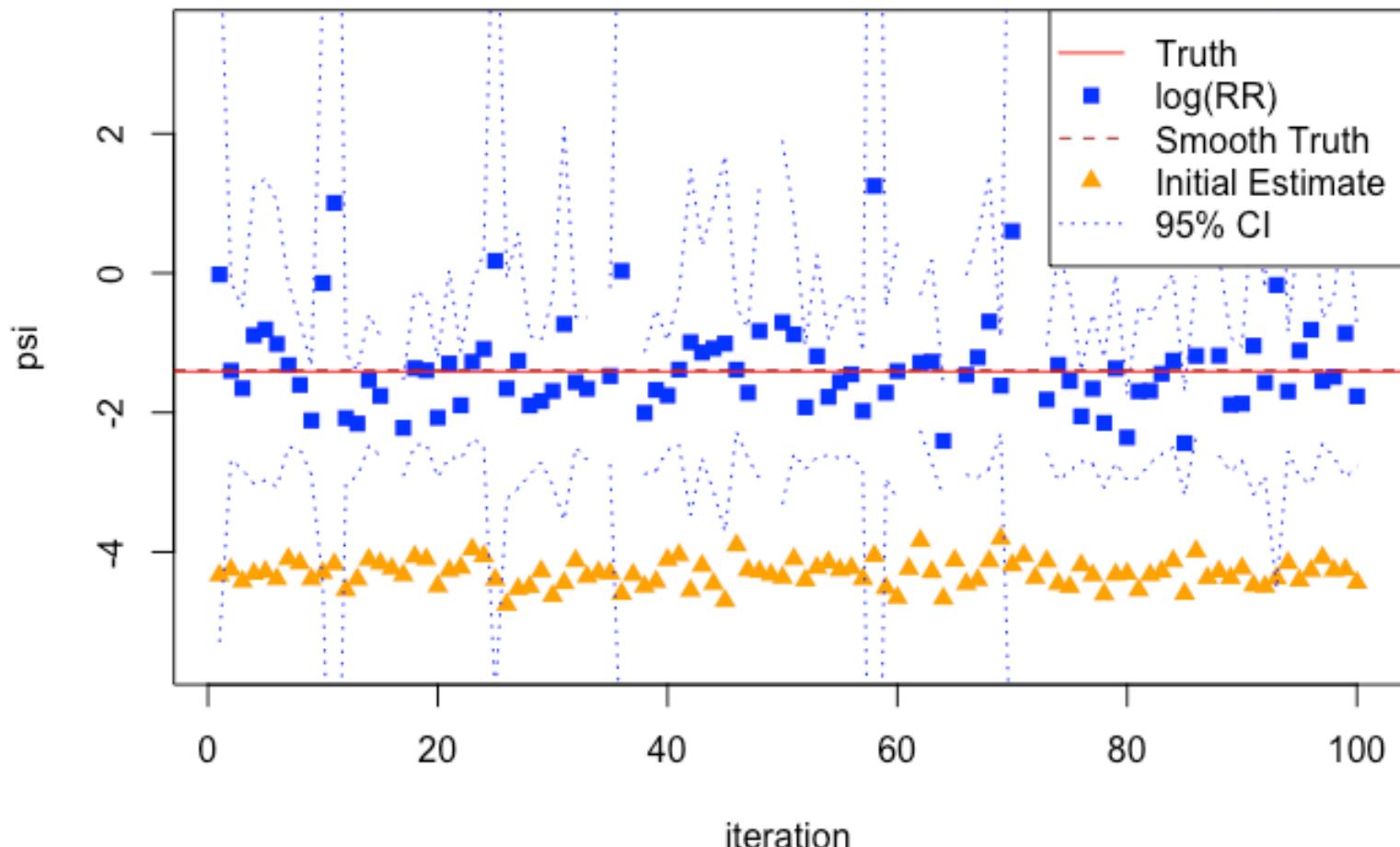
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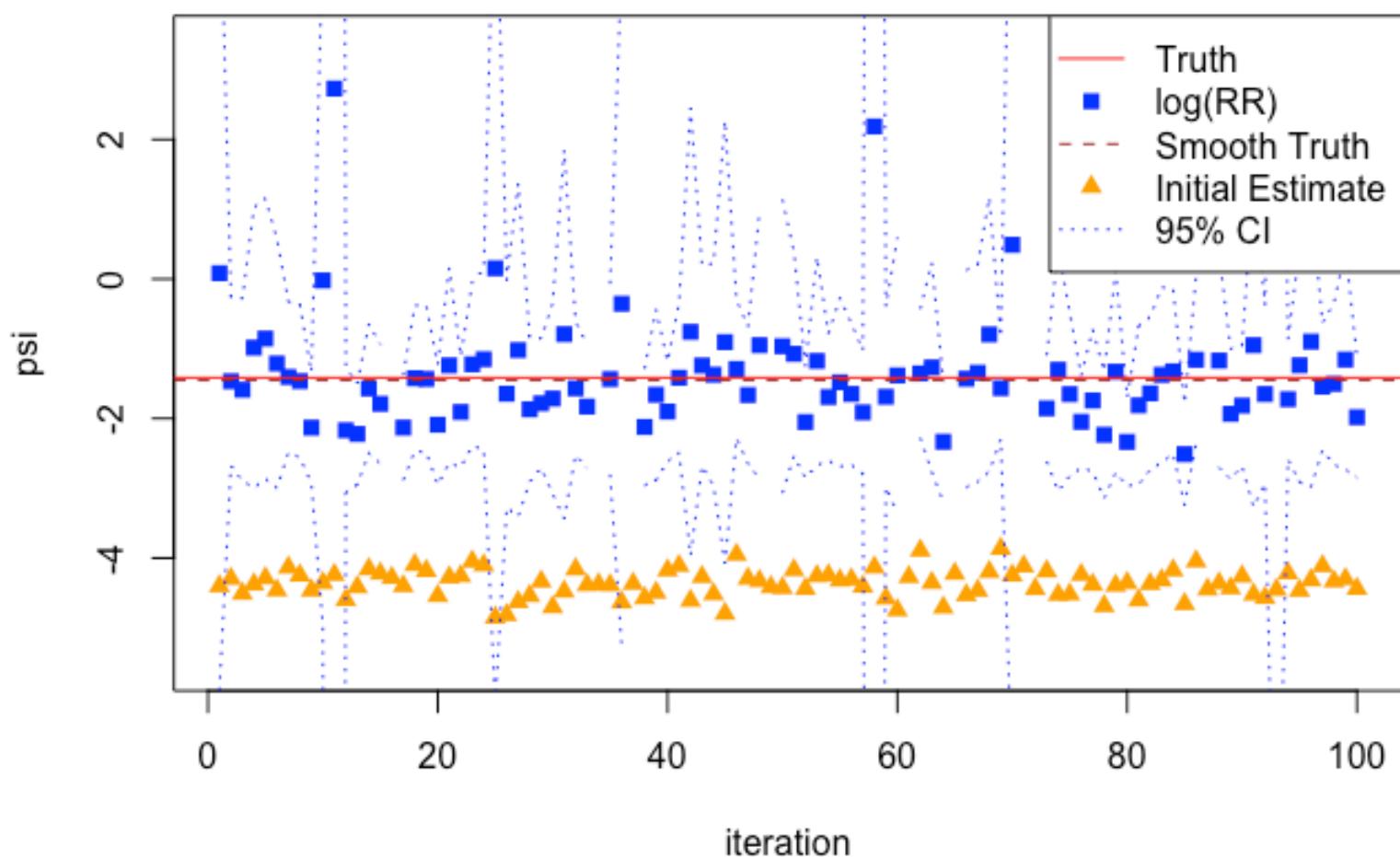
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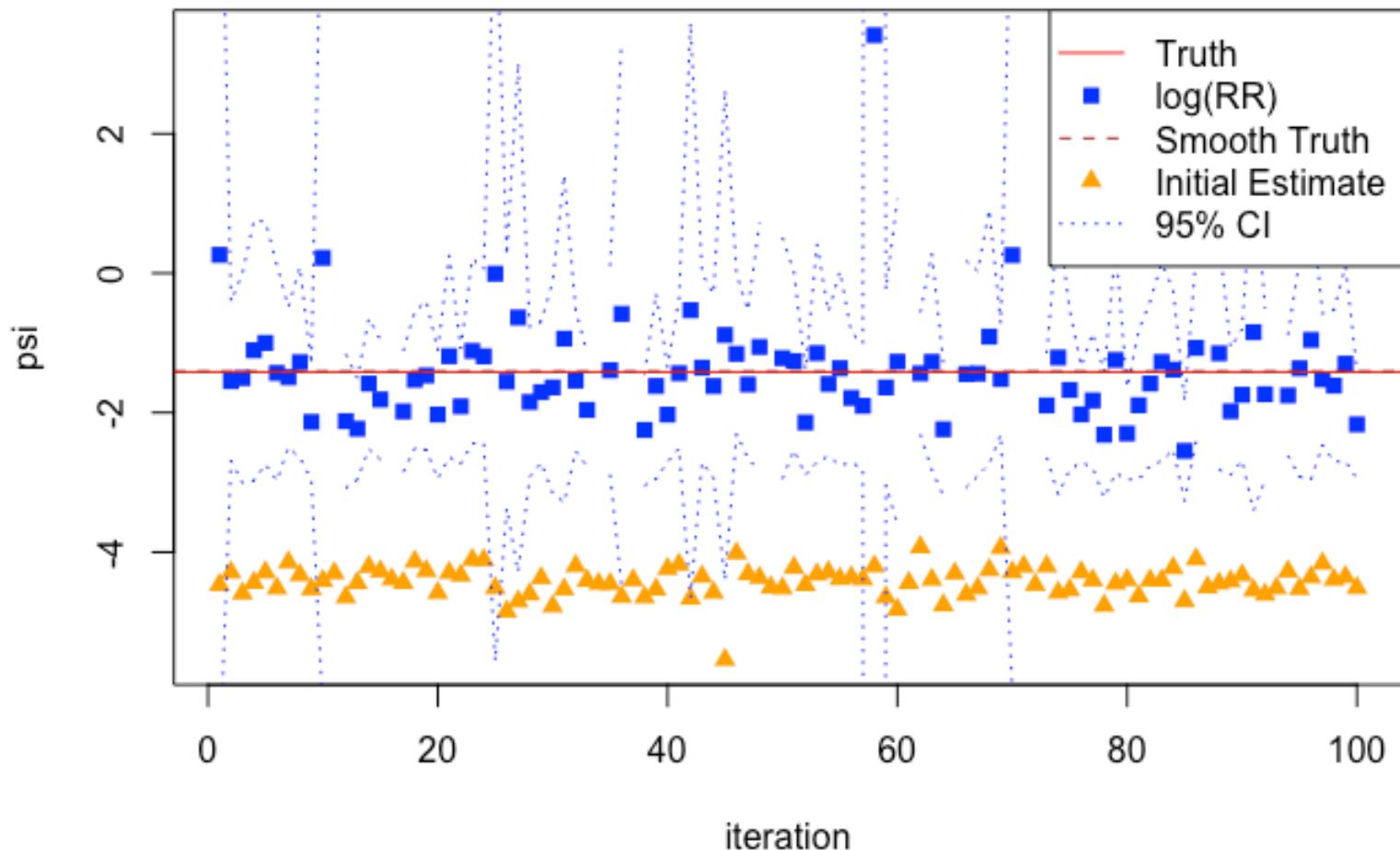
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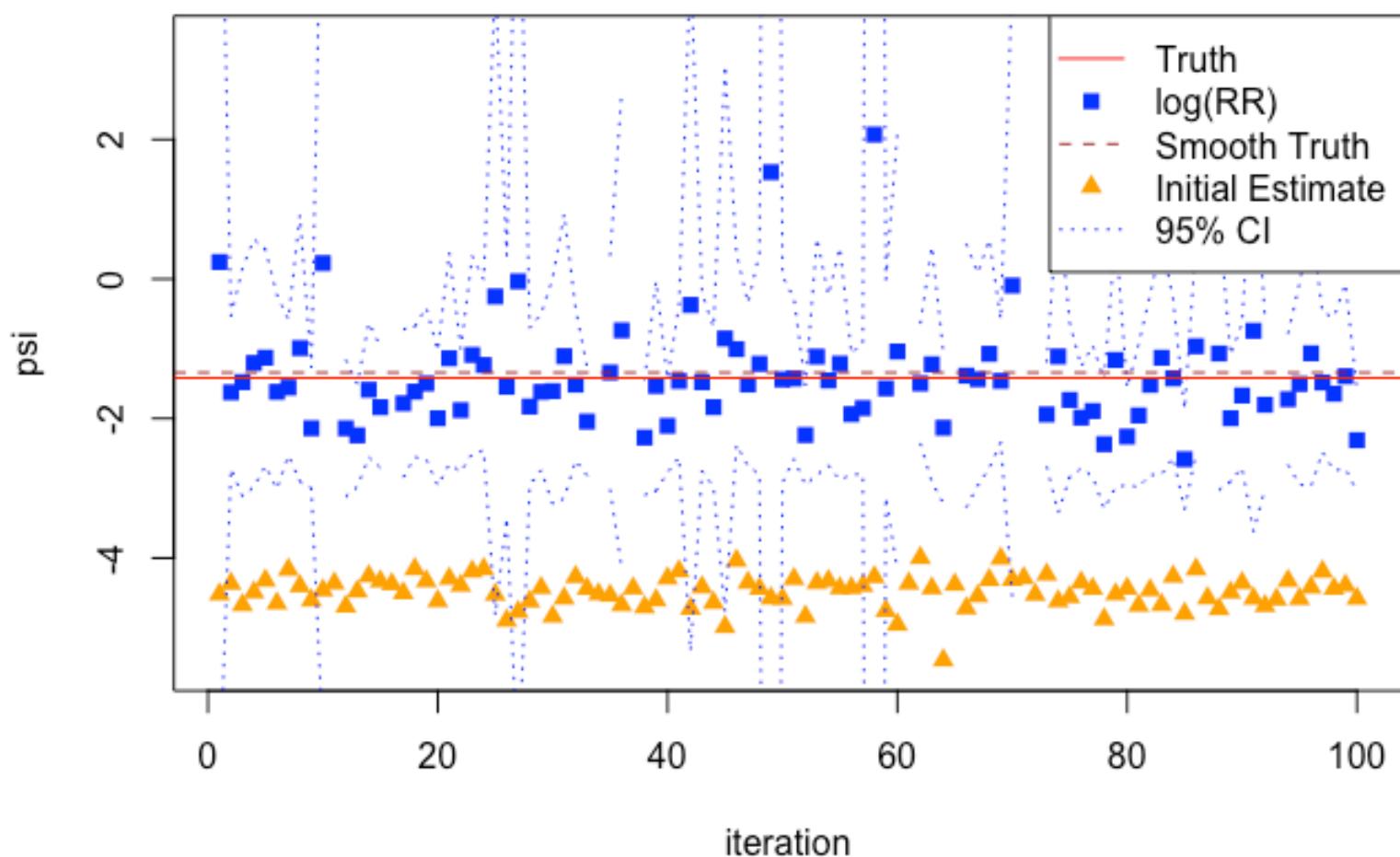
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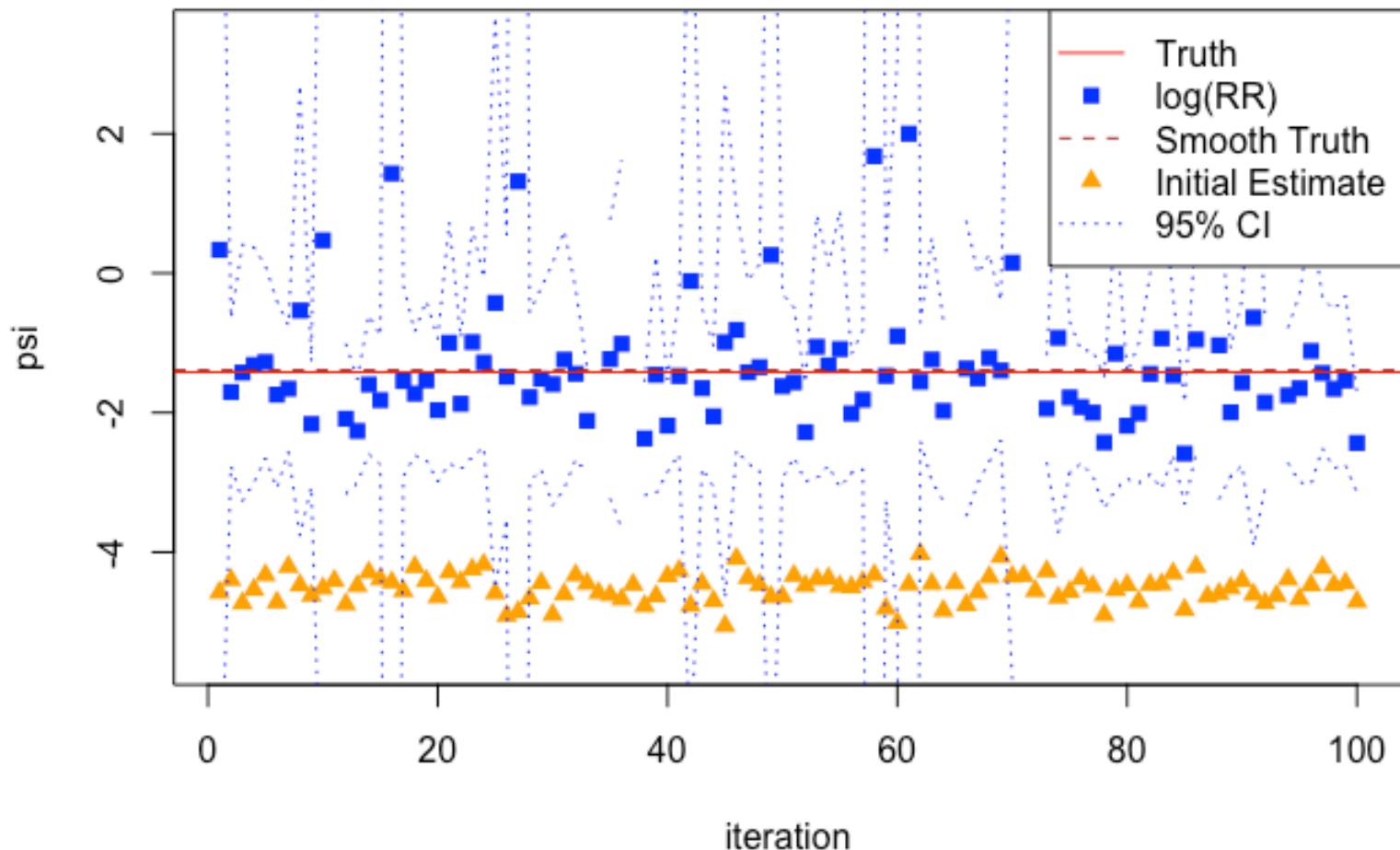
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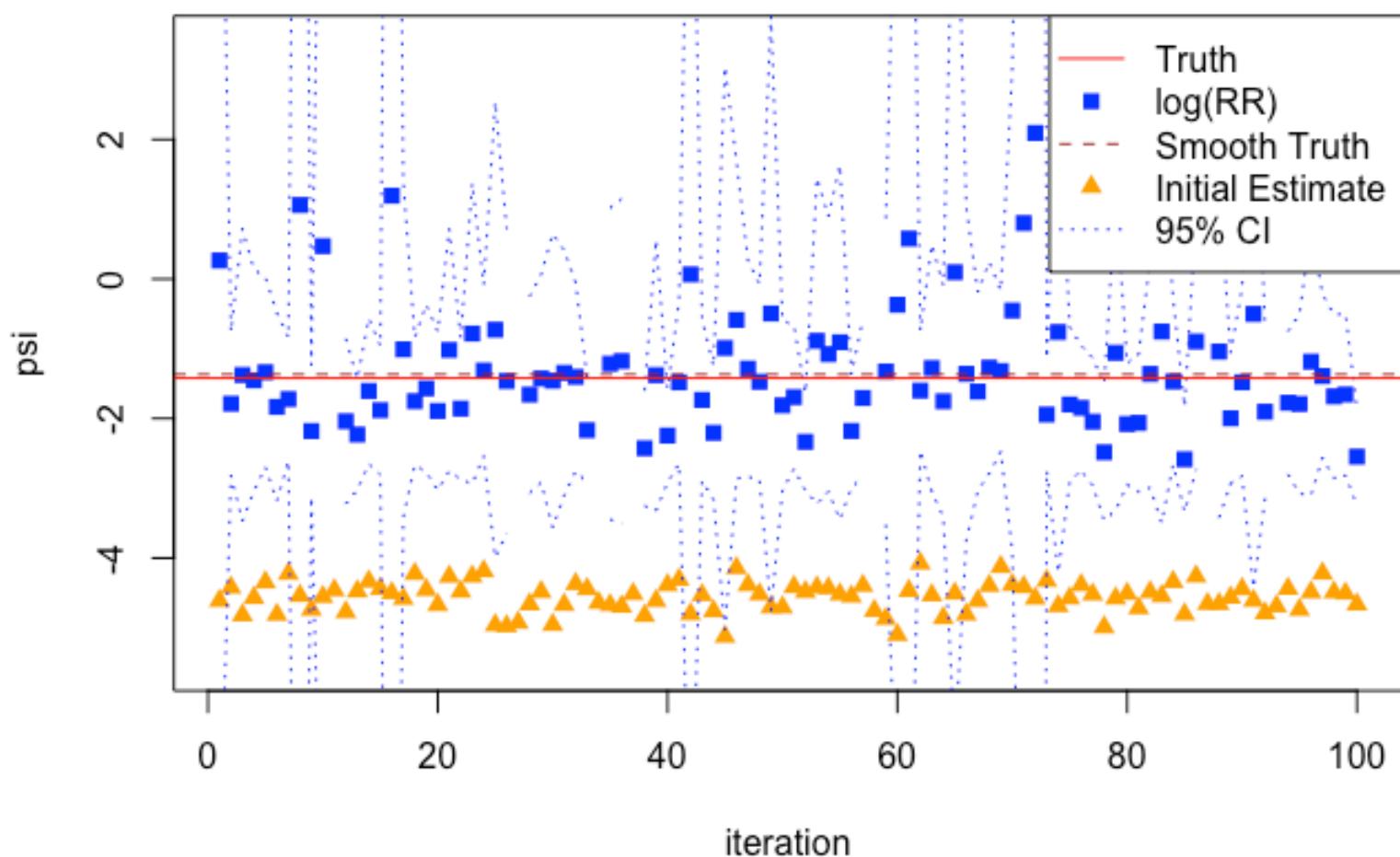
$s_1=0.4$ Null case for $\text{cor}(S_1, W)=0.5$, crossover rate=0.25, sample rate=1



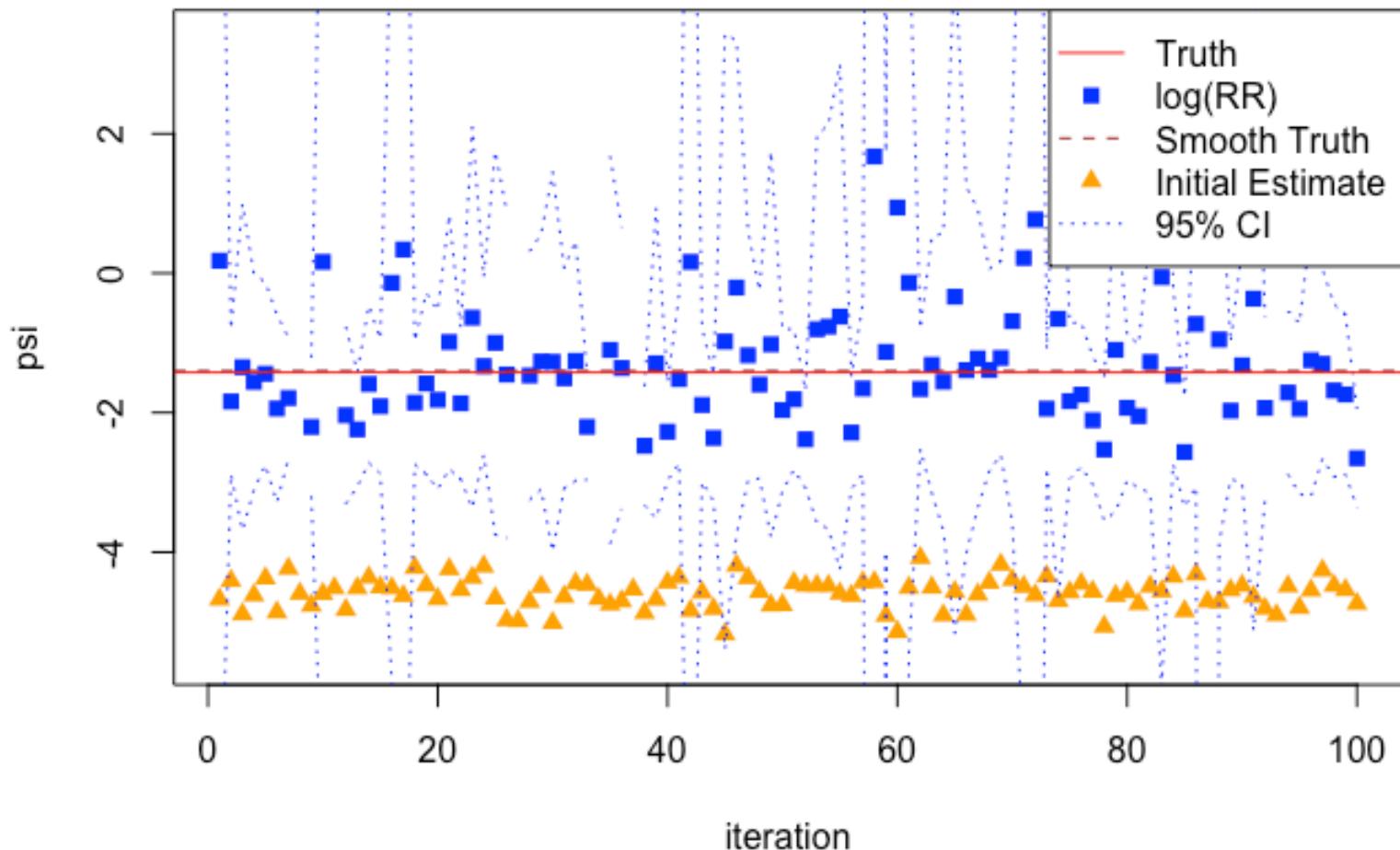
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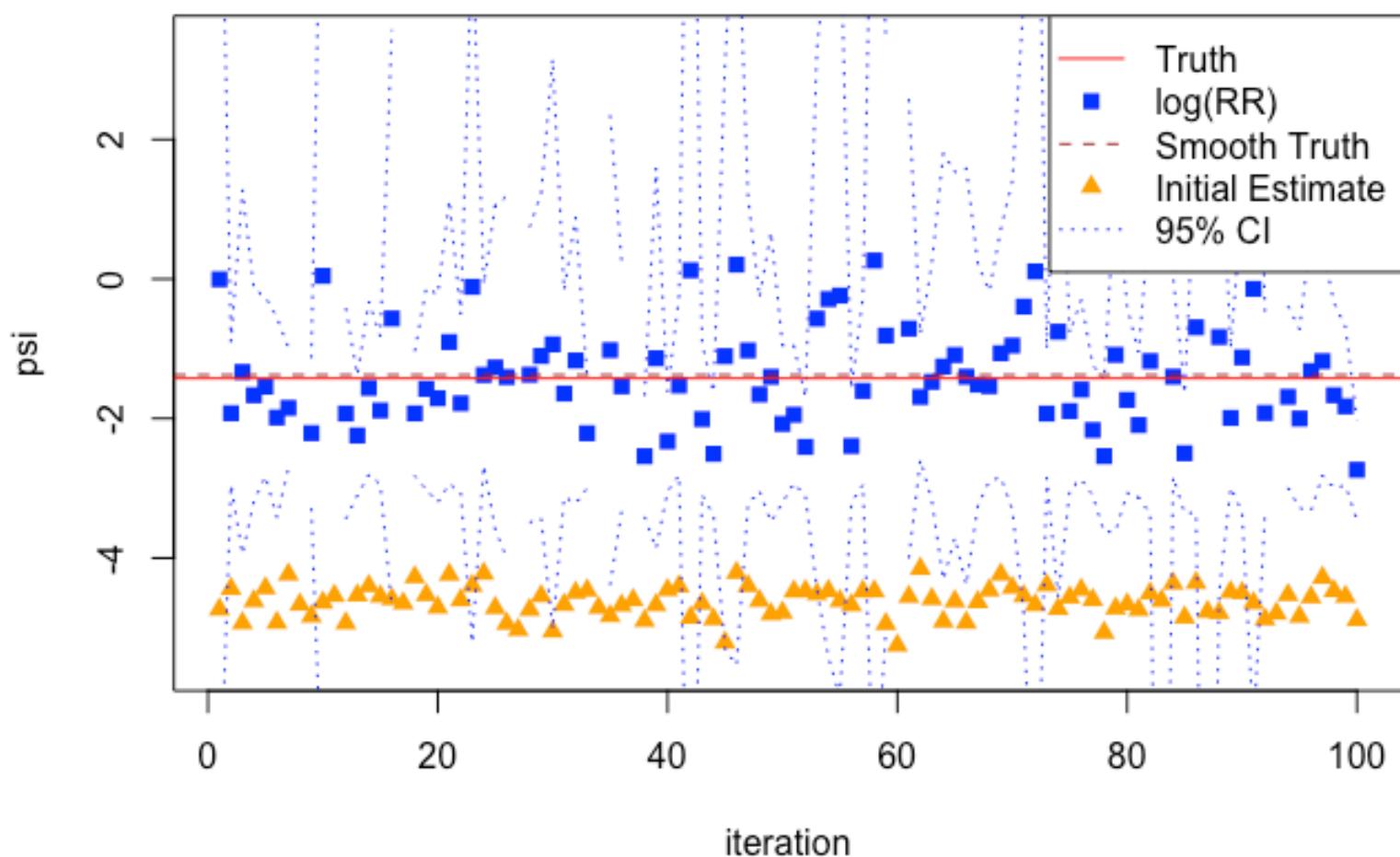
$s_1=0.6$ Null case for $\text{cor}(S_1, W)=0.5$, crossover rate=0.25, sample rate=1



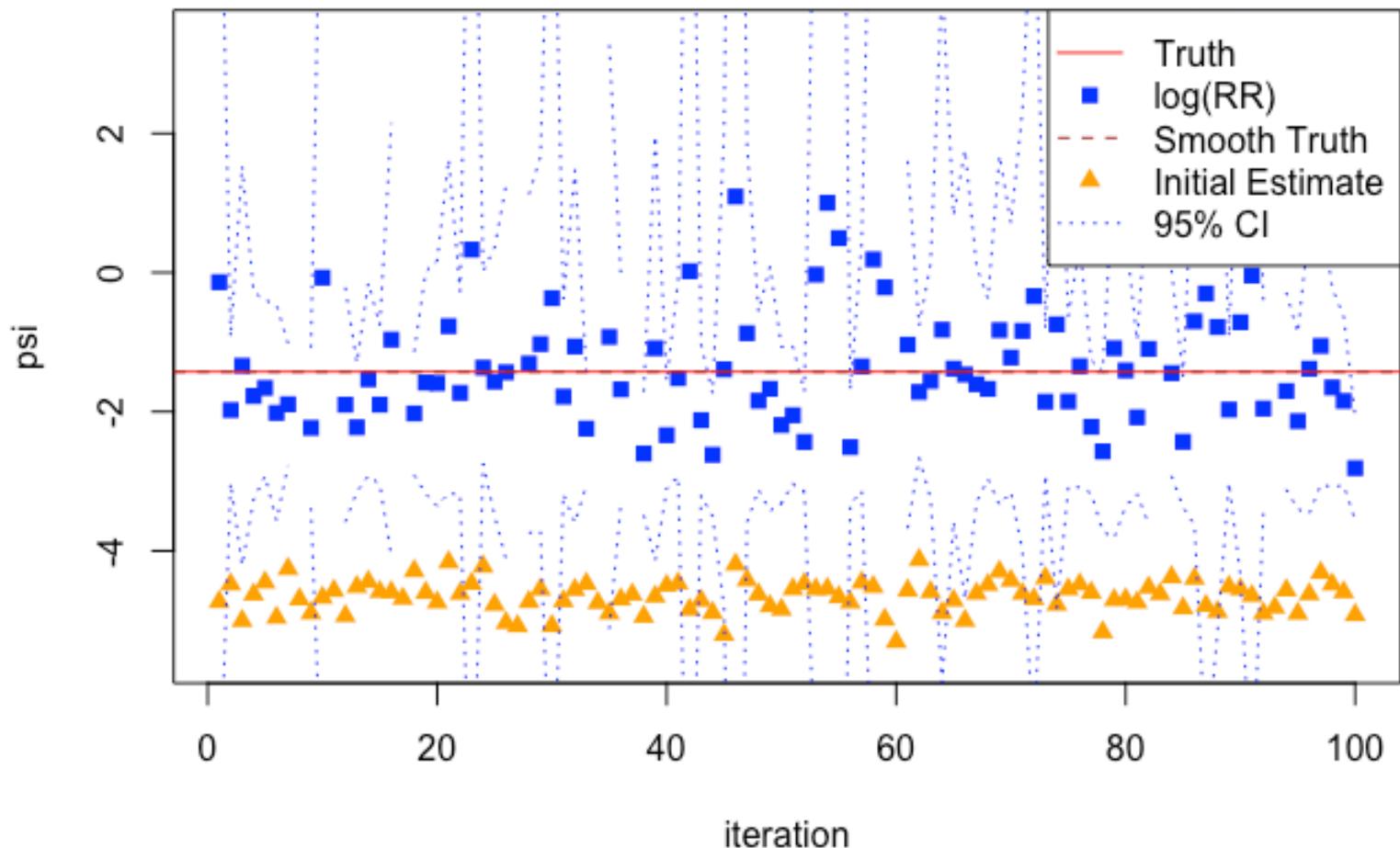
$s_1=0.7$ Null case for $\text{cor}(S_1, W)=0.5$, crossover rate=0.25, sample rate=1



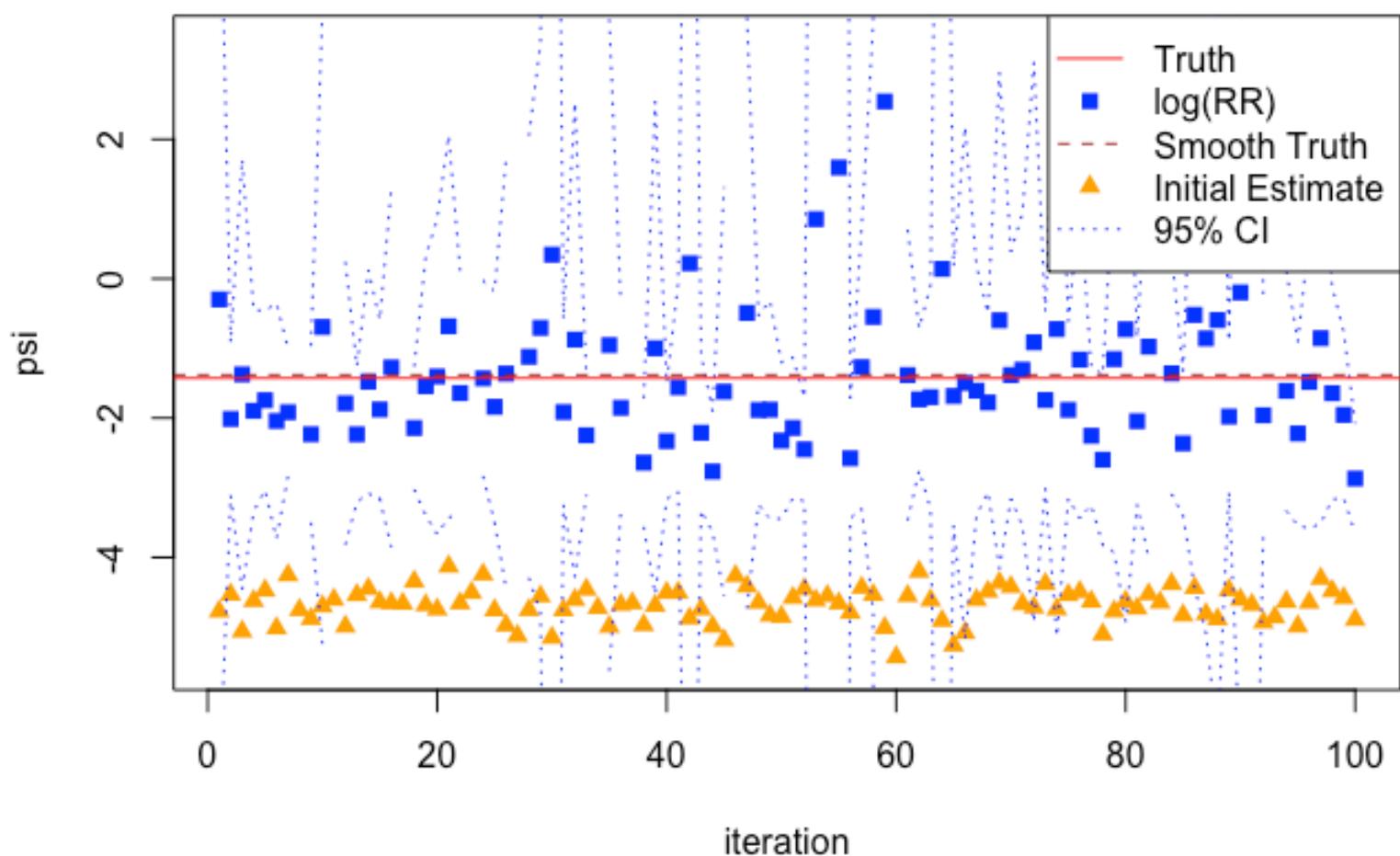
$s_1=0.8$ Null case for $\text{cor}(S_1, W)=0.5$, crossover rate=0.25, sample rate=1



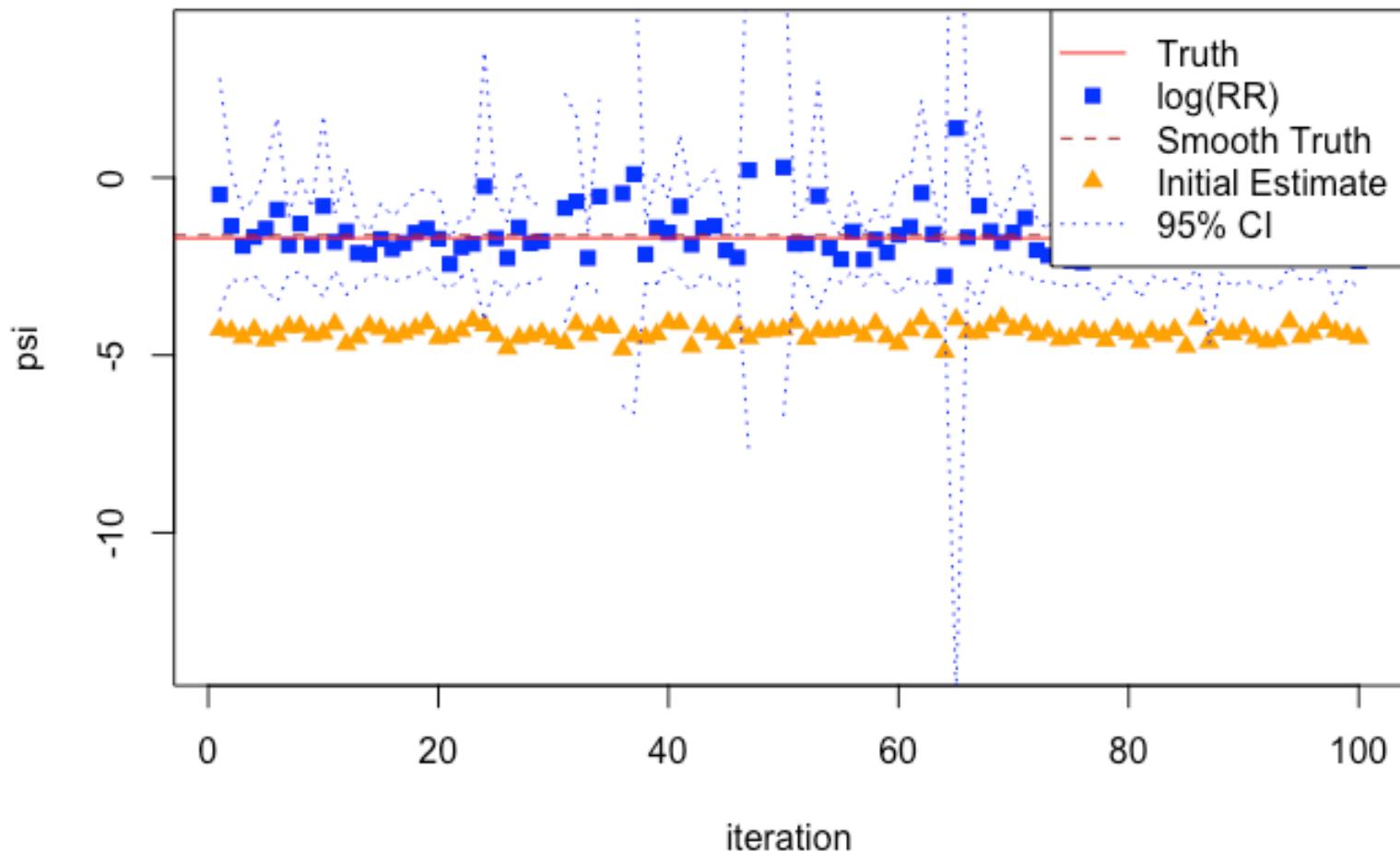
$s_1=0.9$ Null case for $\text{cor}(S_1, W)=0.5$, crossover rate=0.25, sample rate=1



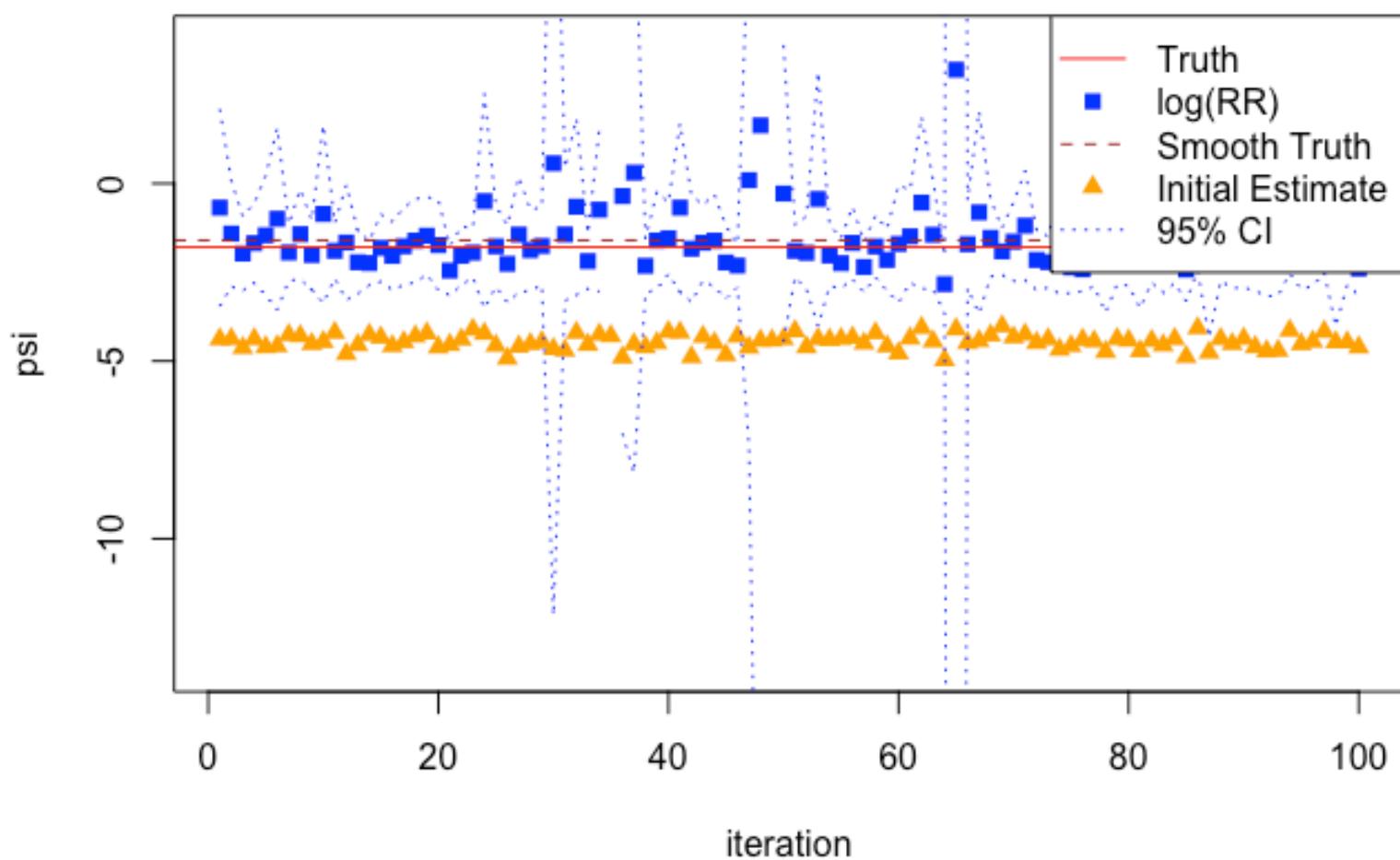
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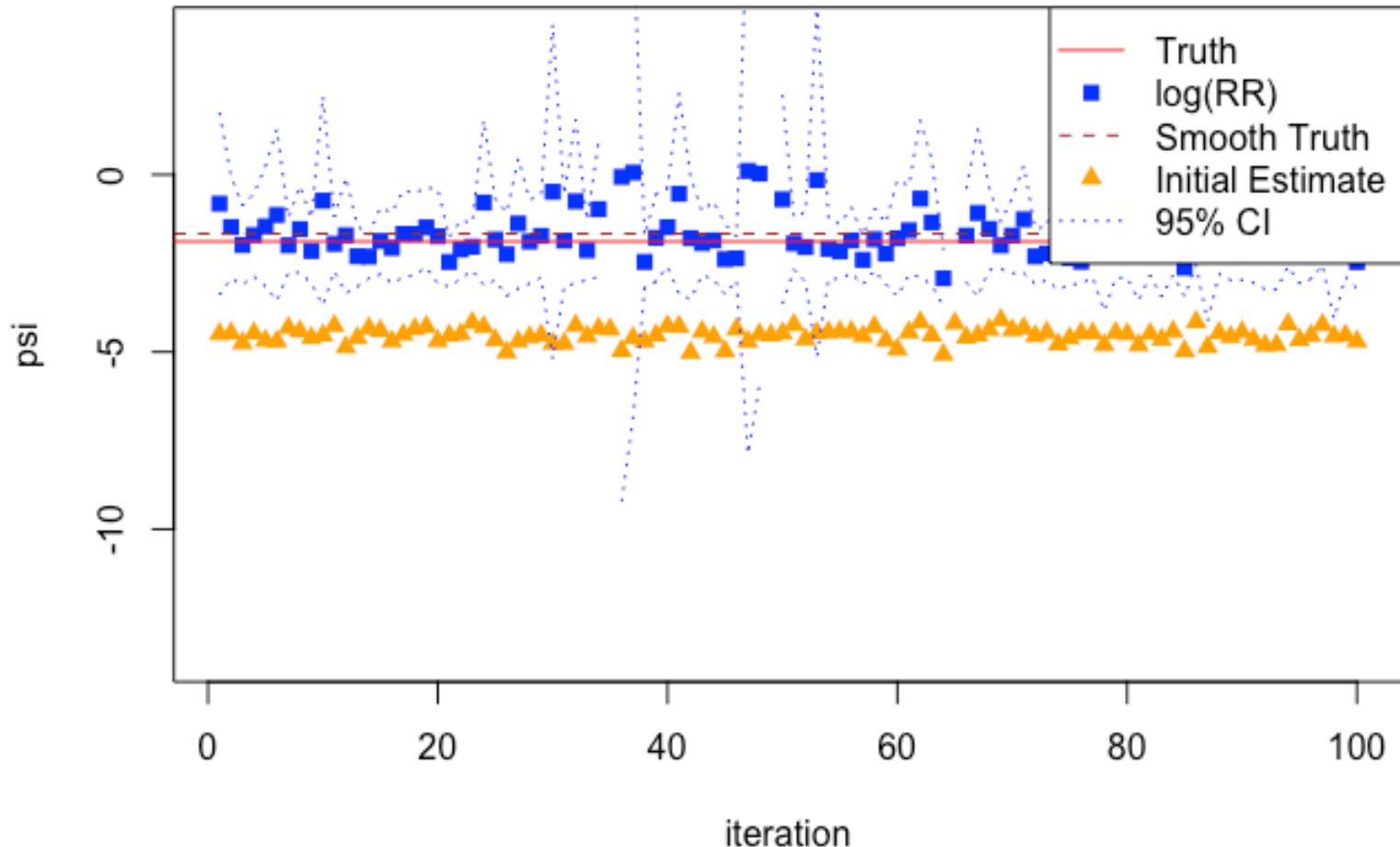
s1=0 Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=1



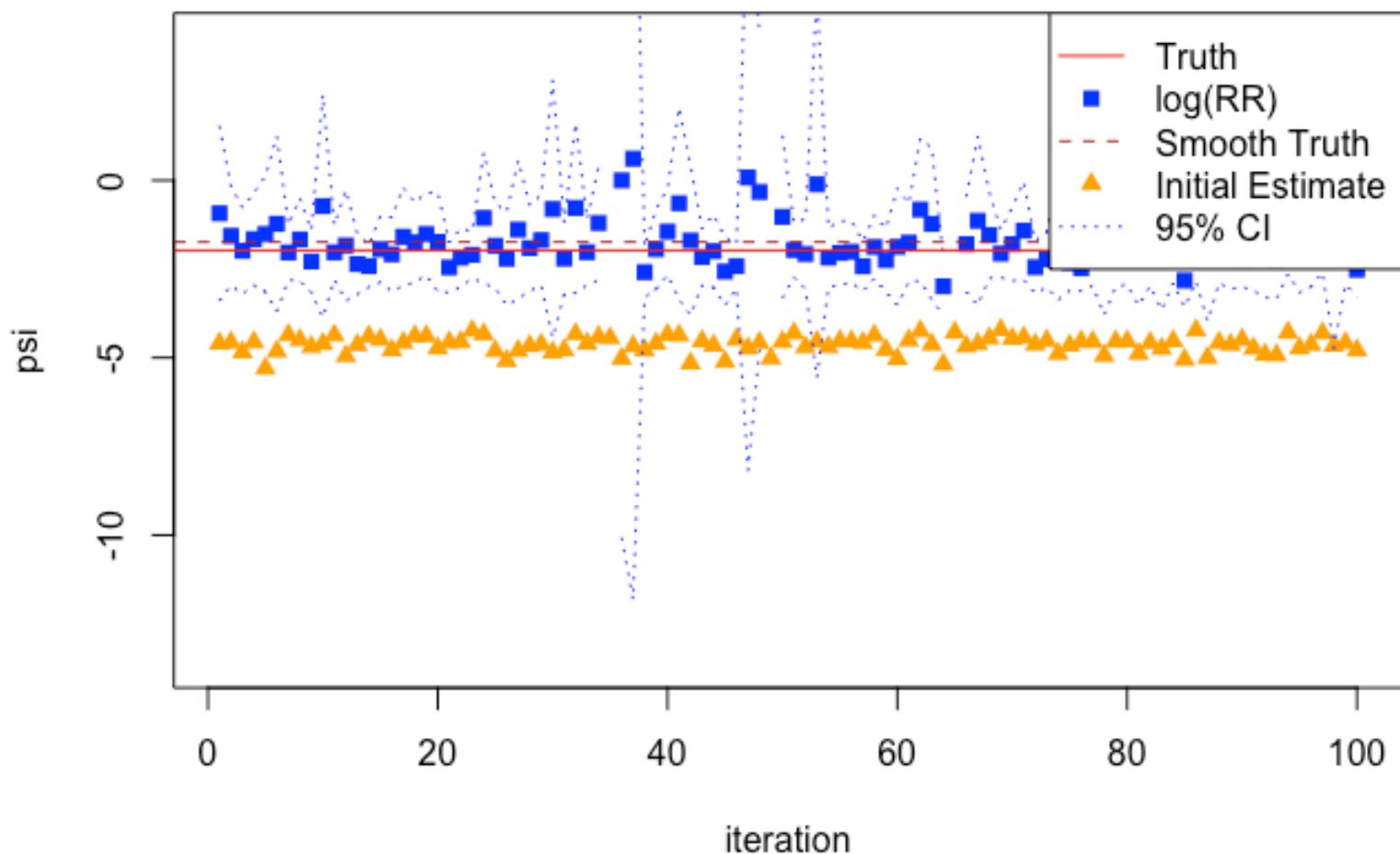
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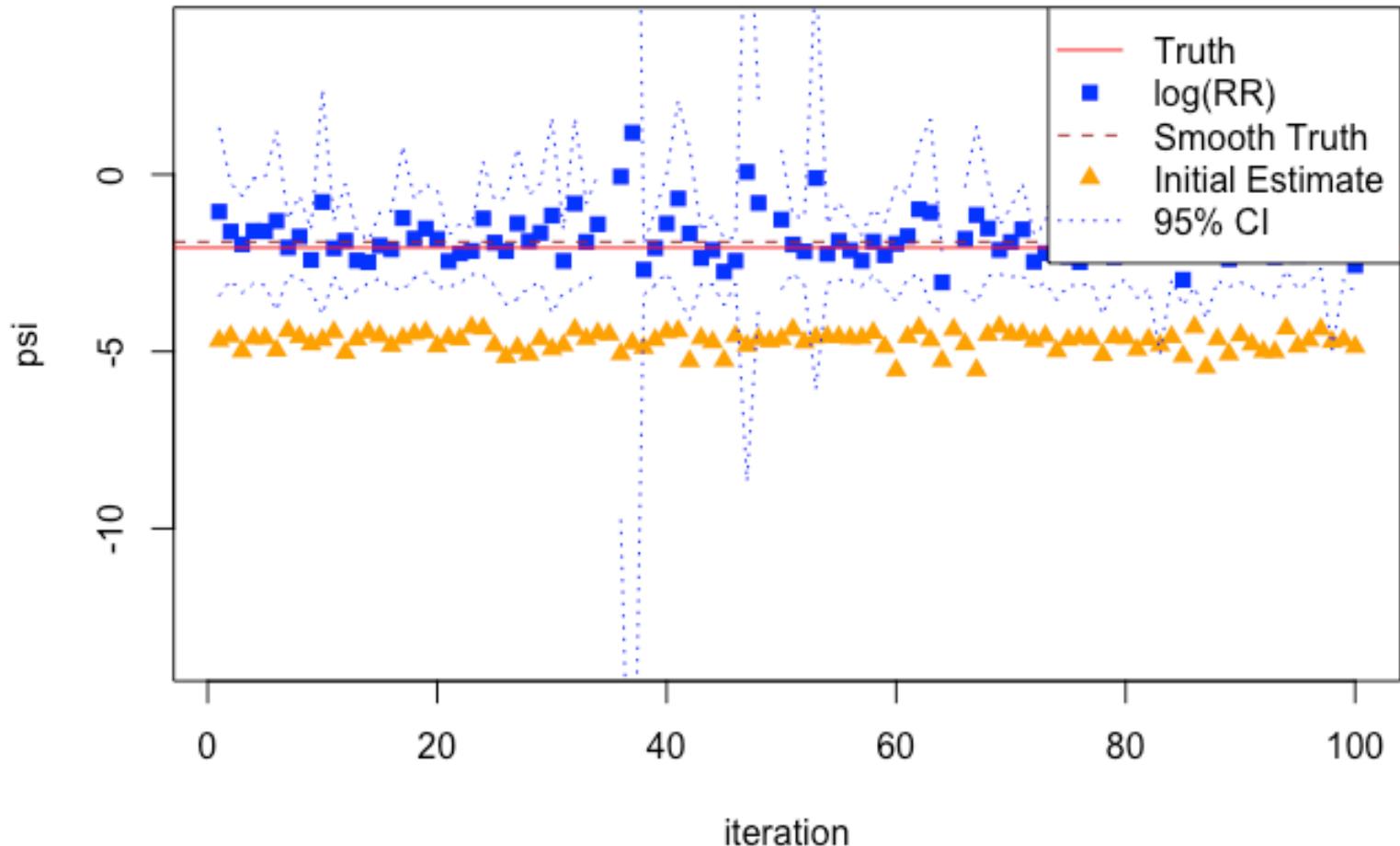
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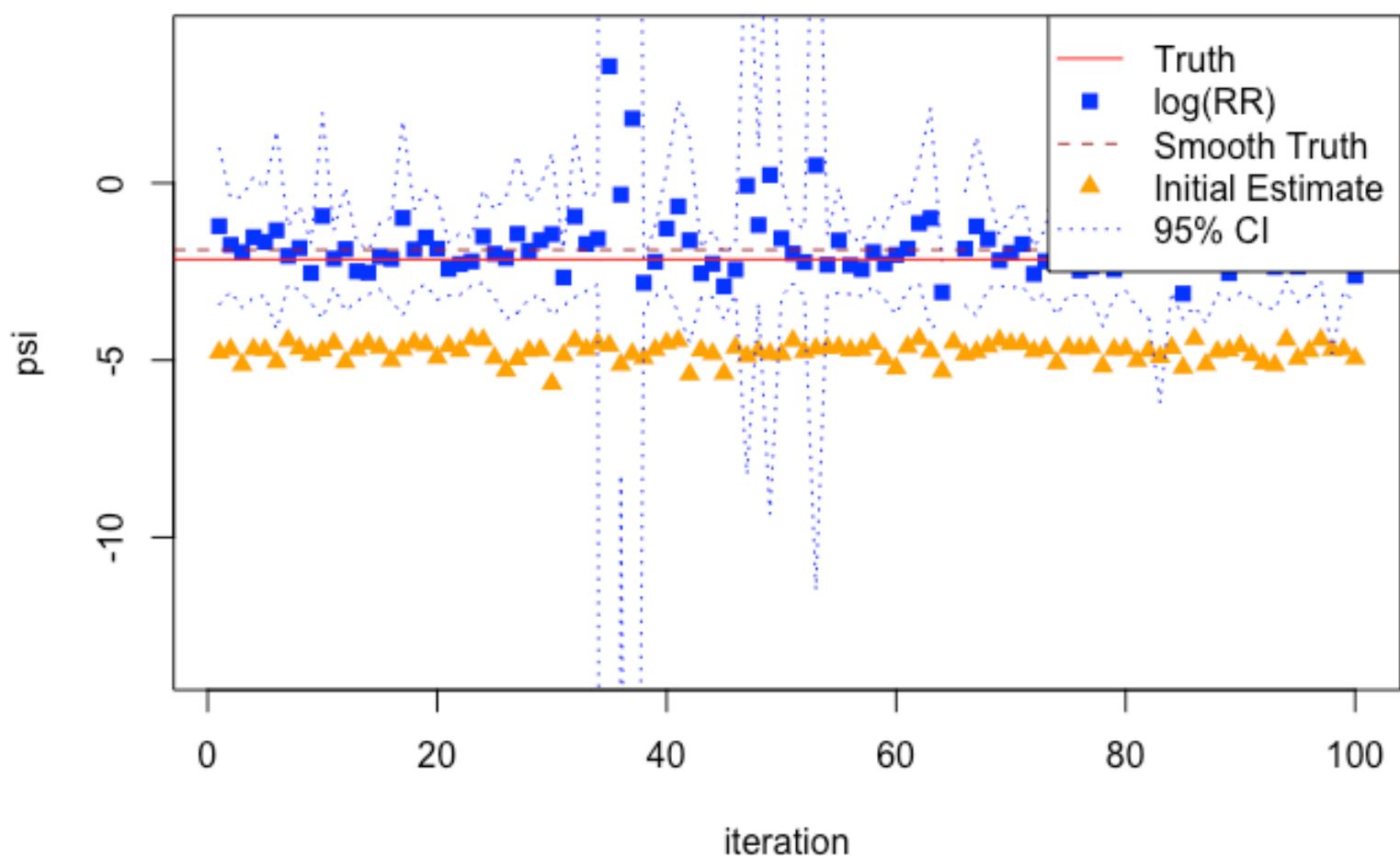
$s_1=0.3$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=1



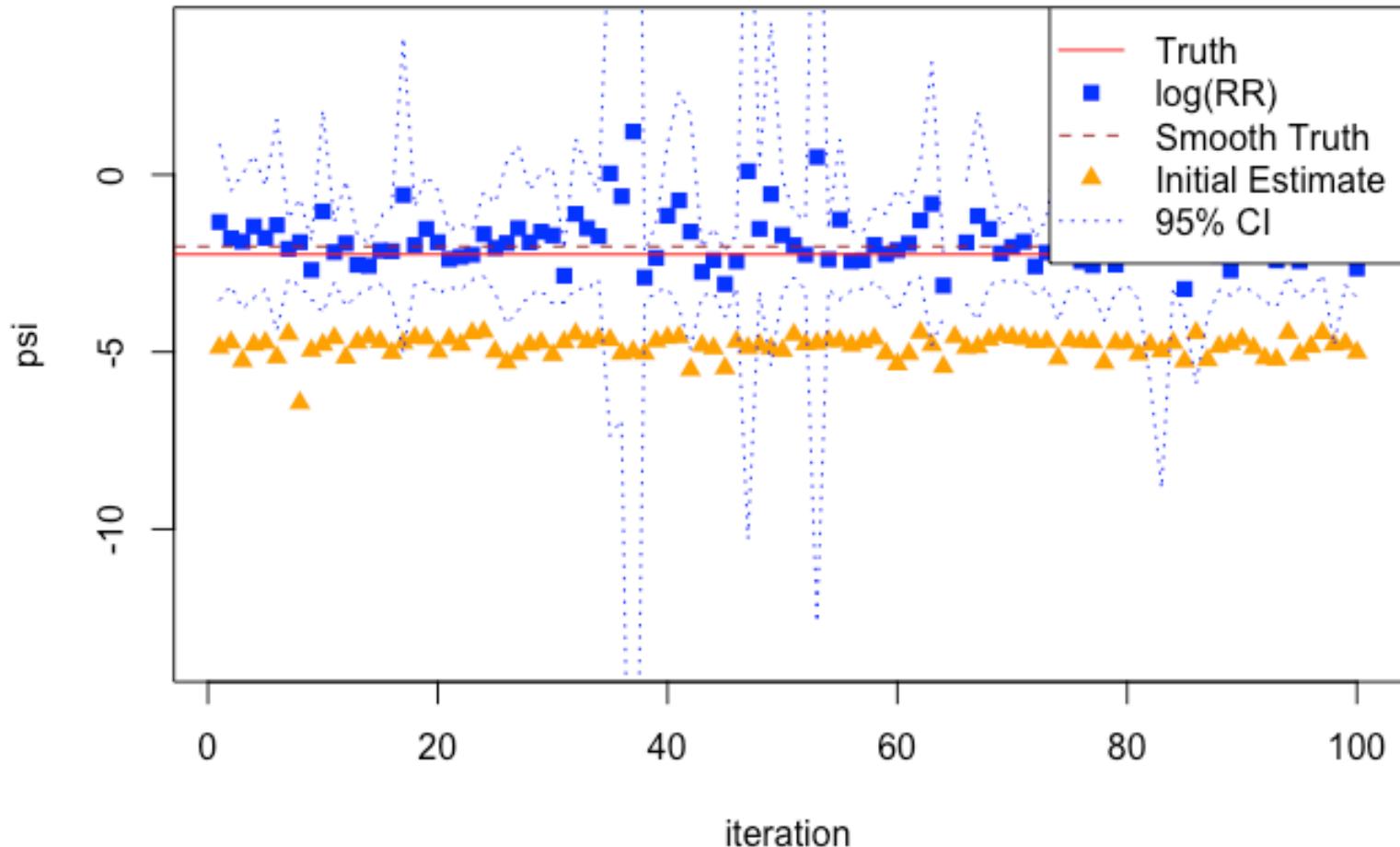
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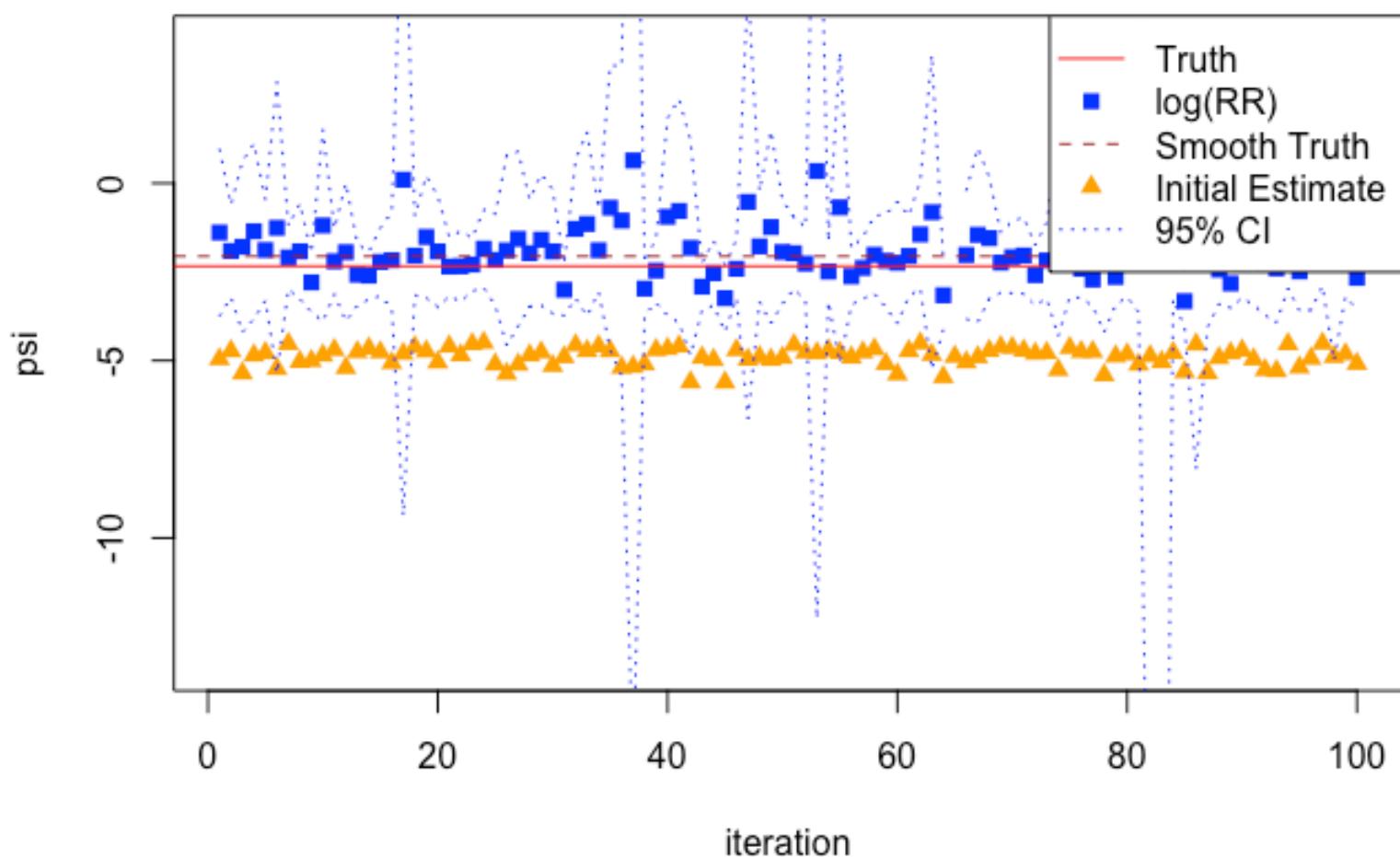
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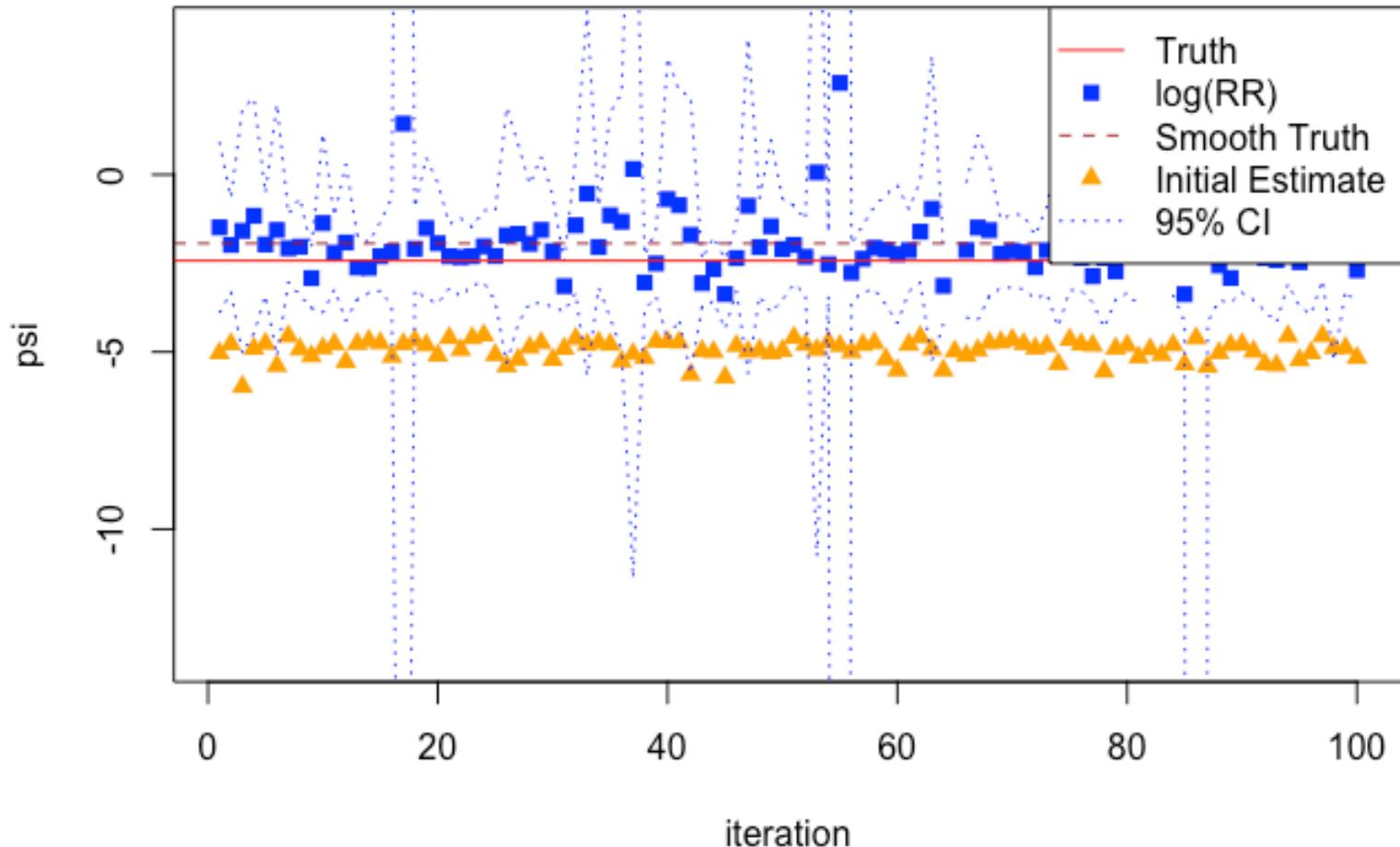
s1=0.6 Alternative case for cor(S1,W)=0.5, crossover rate=0.25, sample rate=1



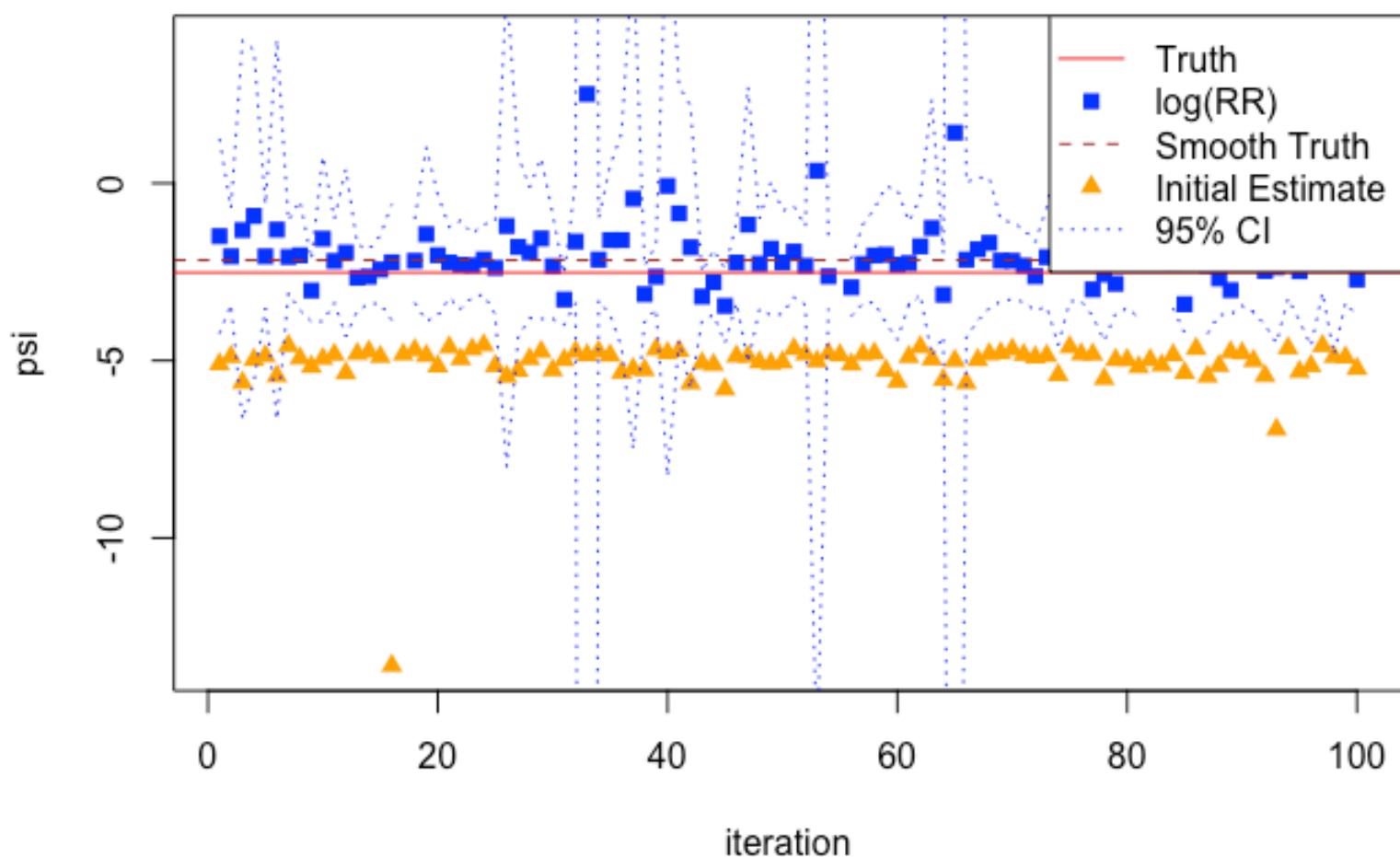
s1=0.7 Alternative case for cor(S1,W)=0.5, crossover rate=0.25, sample rate=1



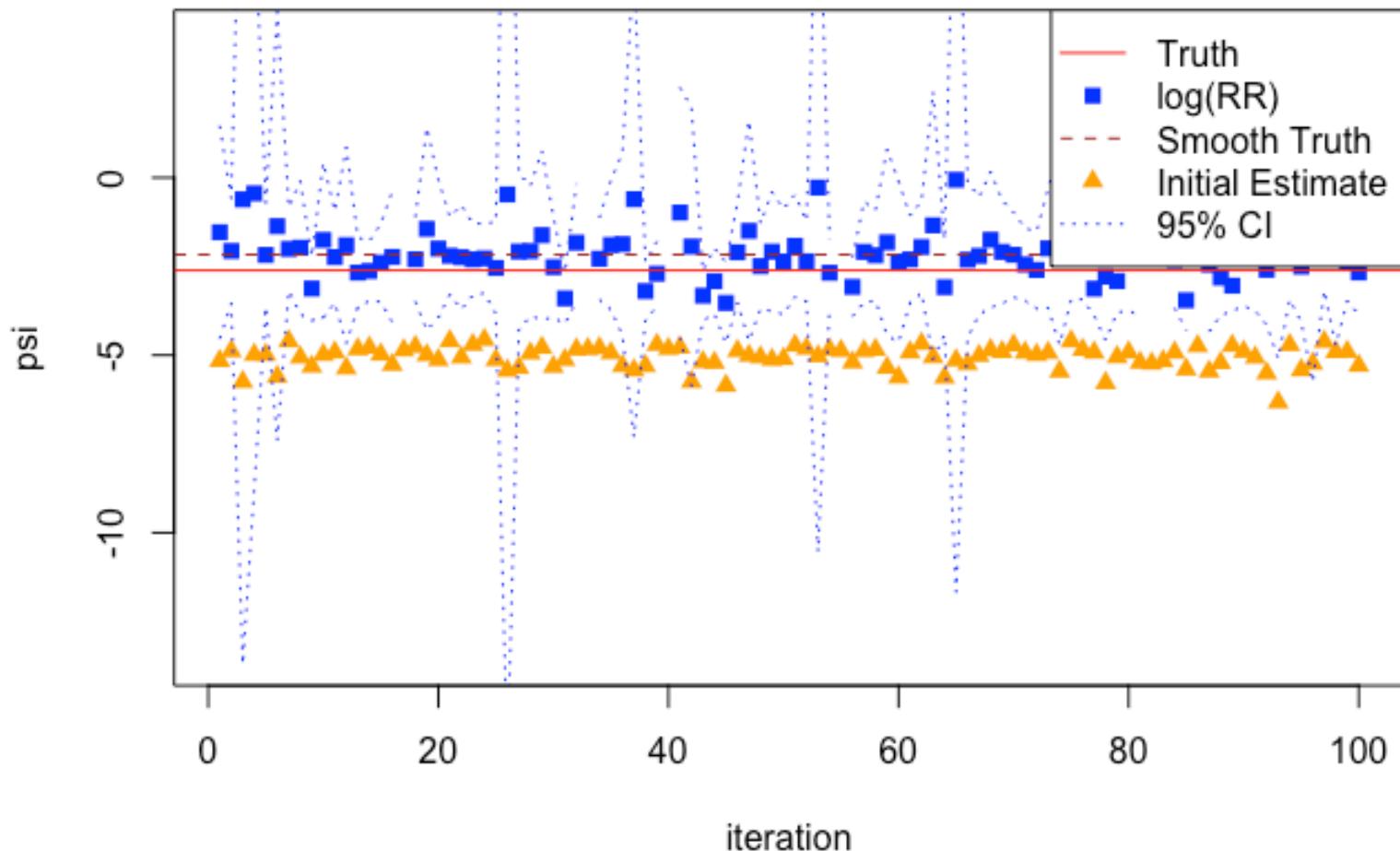
$s_1=0.8$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.25, sample rate=1



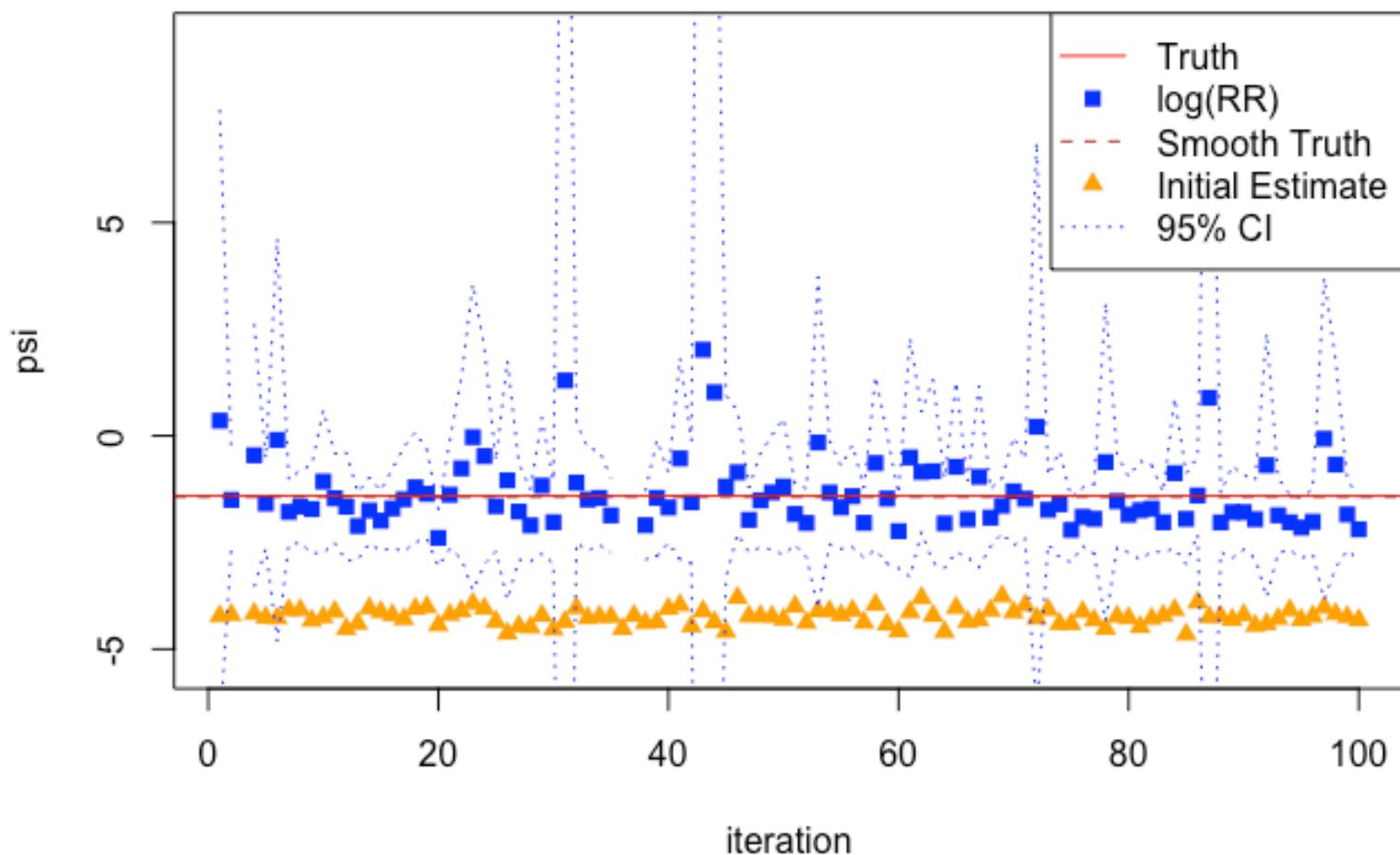
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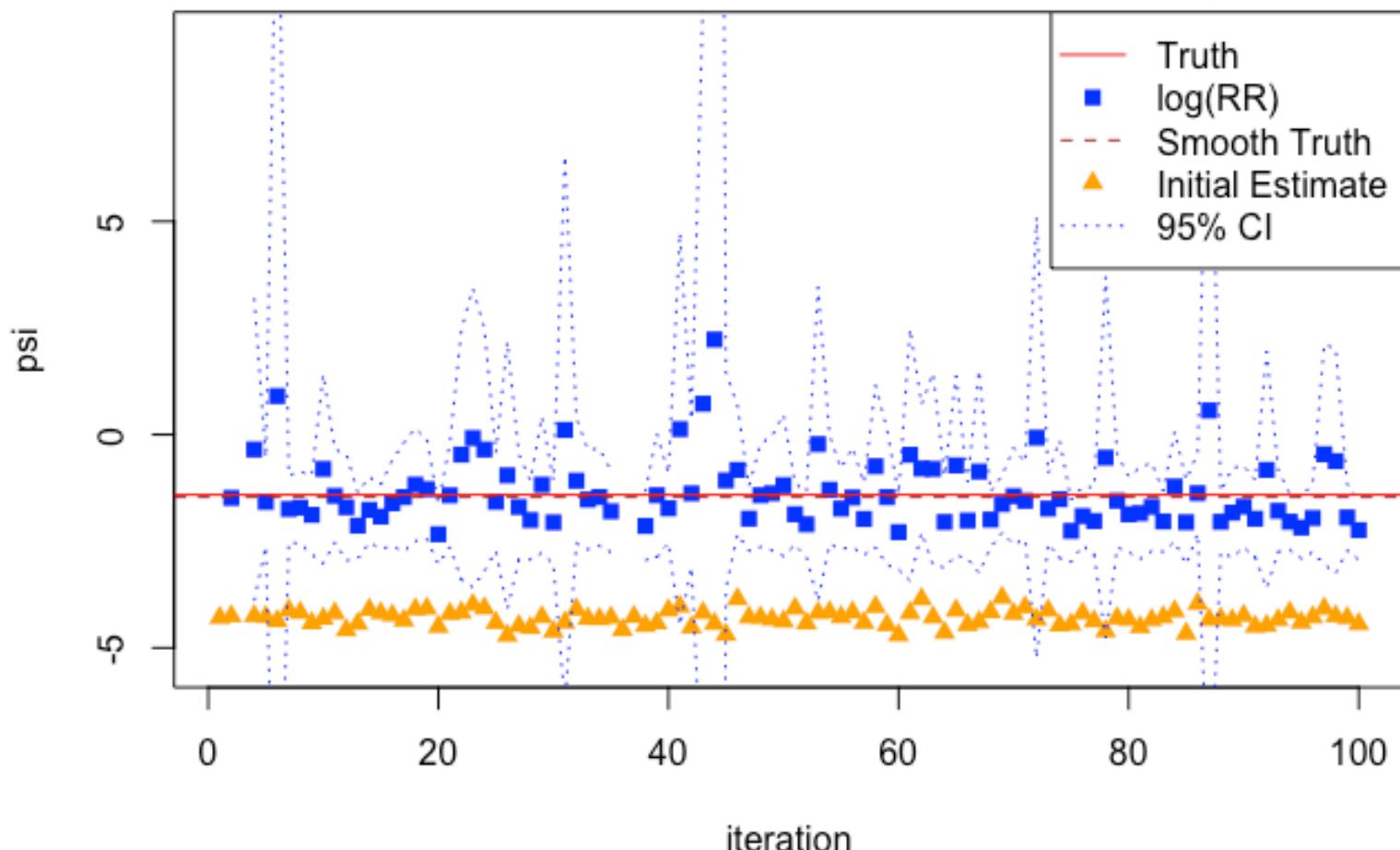
s1=1 Alternative case for $\text{cor}(S1, W) = 0.5$, crossover rate=0.25, sample rate=1



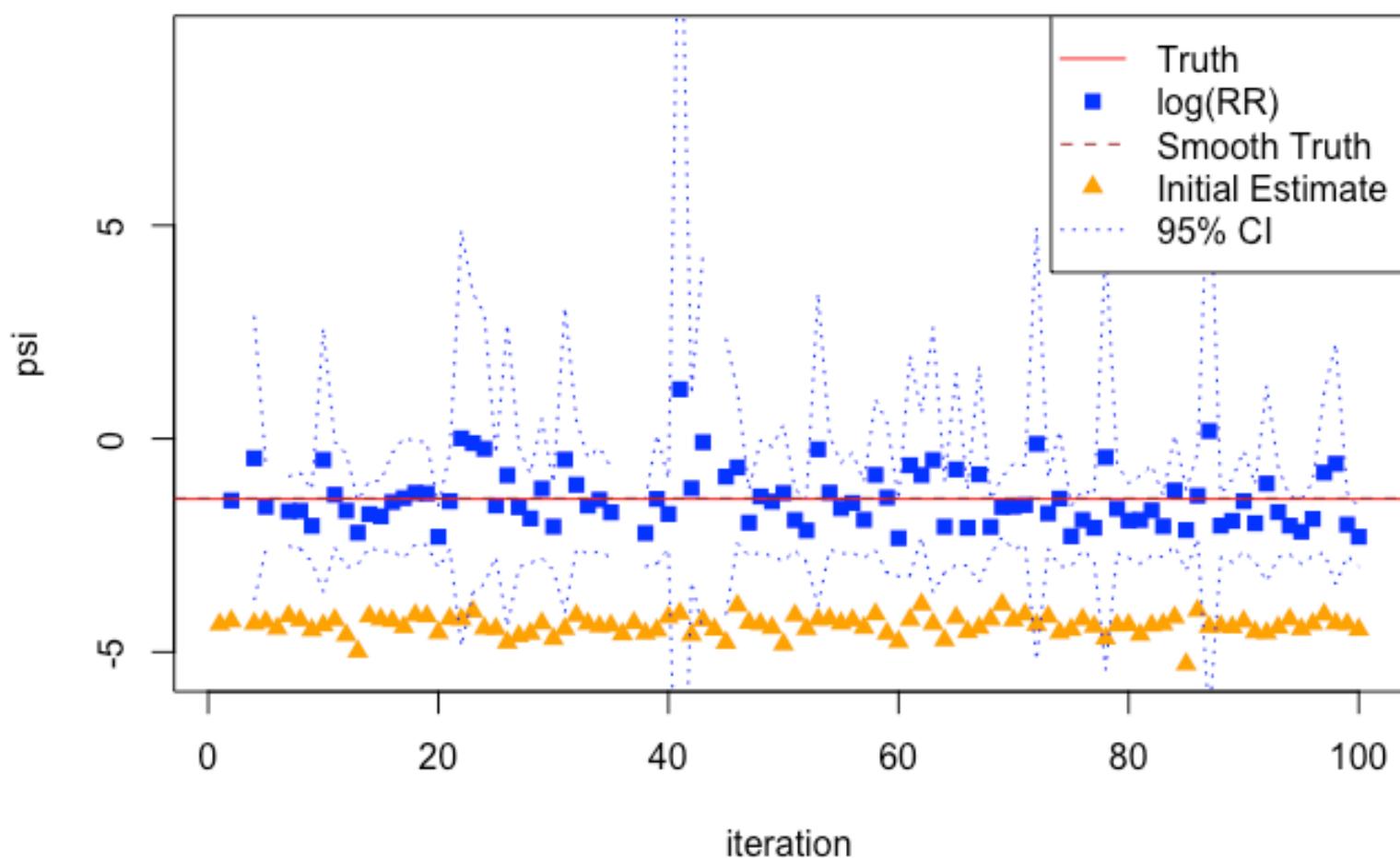
s1=0 Null case for $\text{cor}(S1, W) = 0.5$, crossover rate=0.5, sample rate=0.25



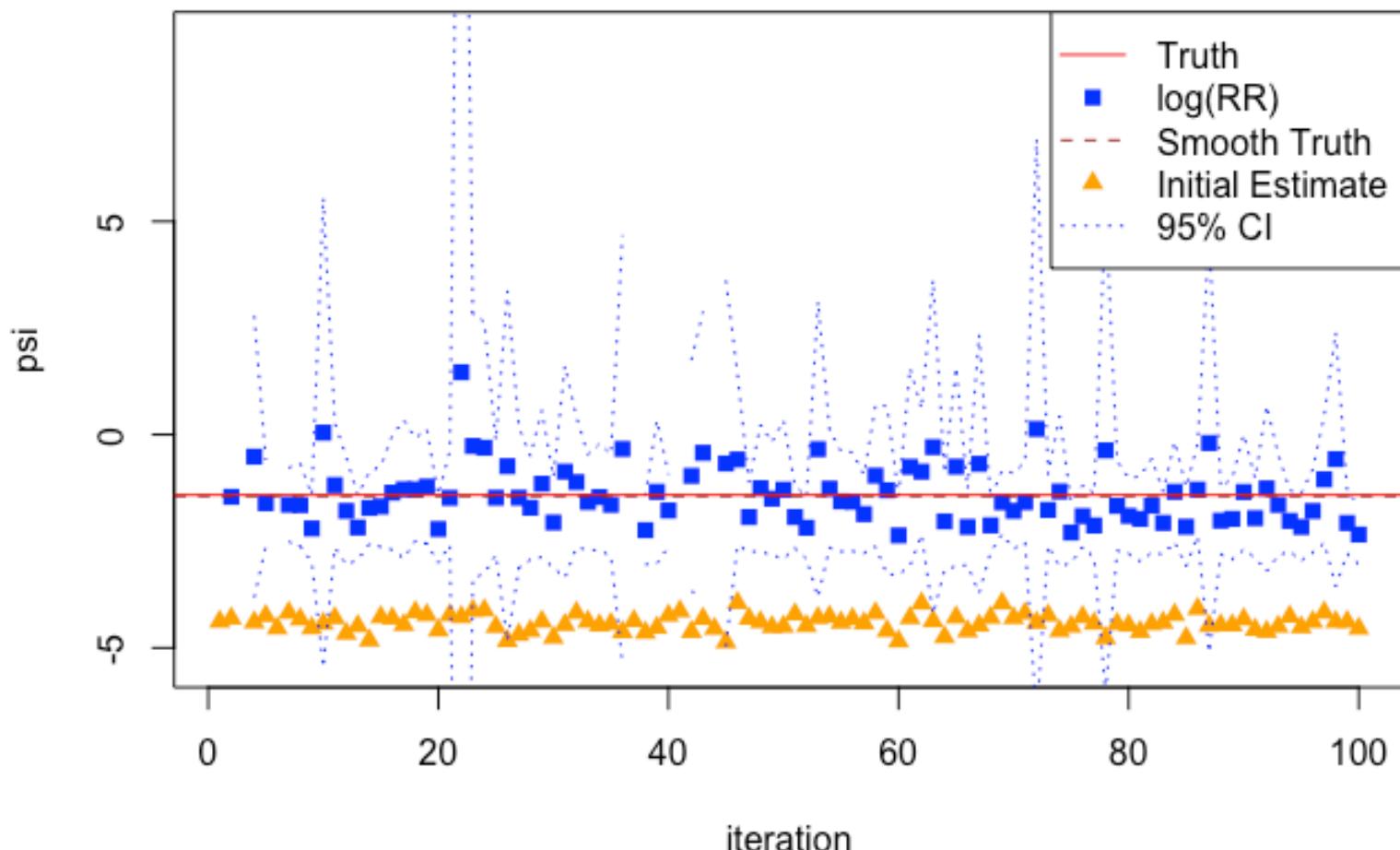
s1=0.1 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



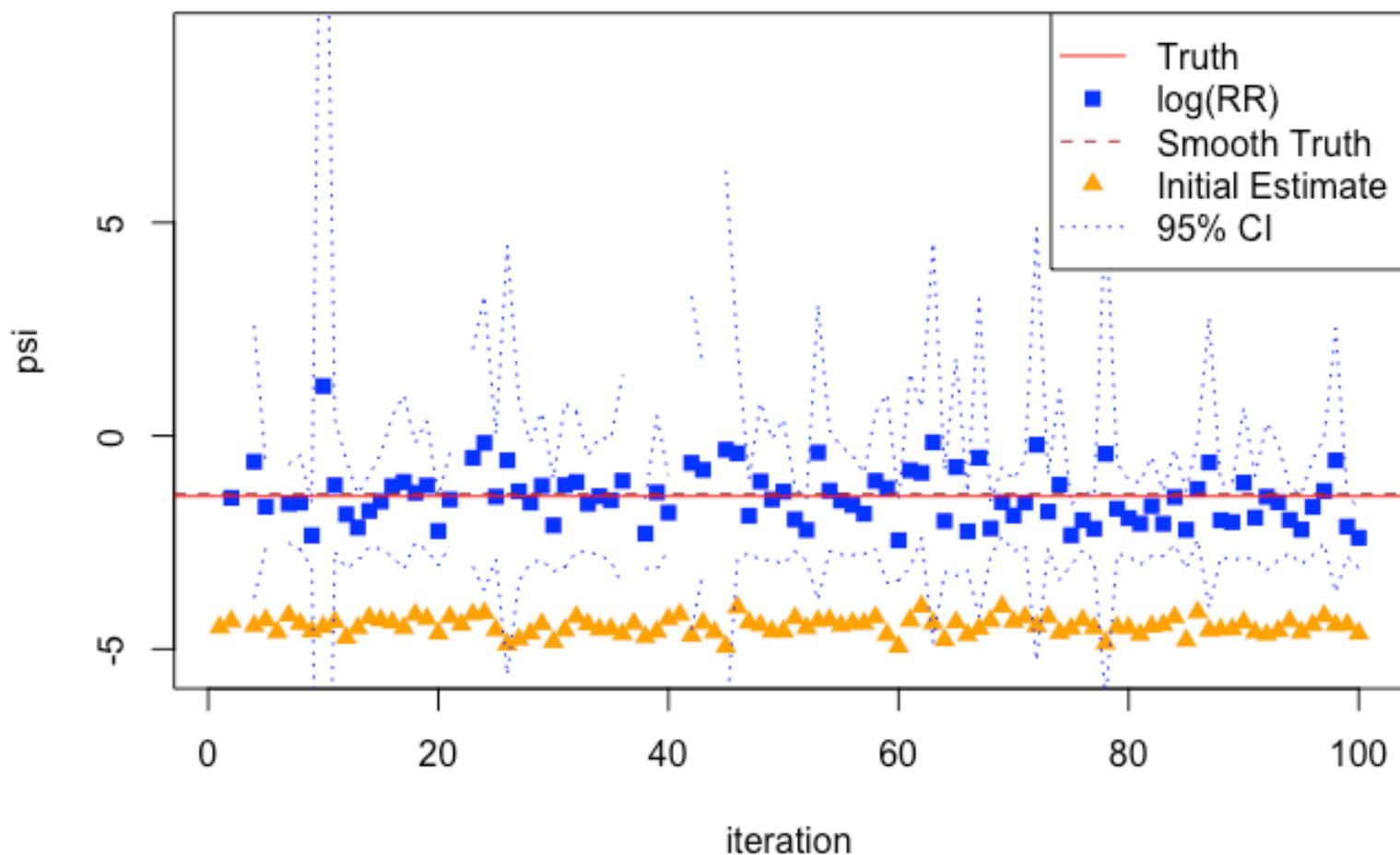
s1=0.2 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



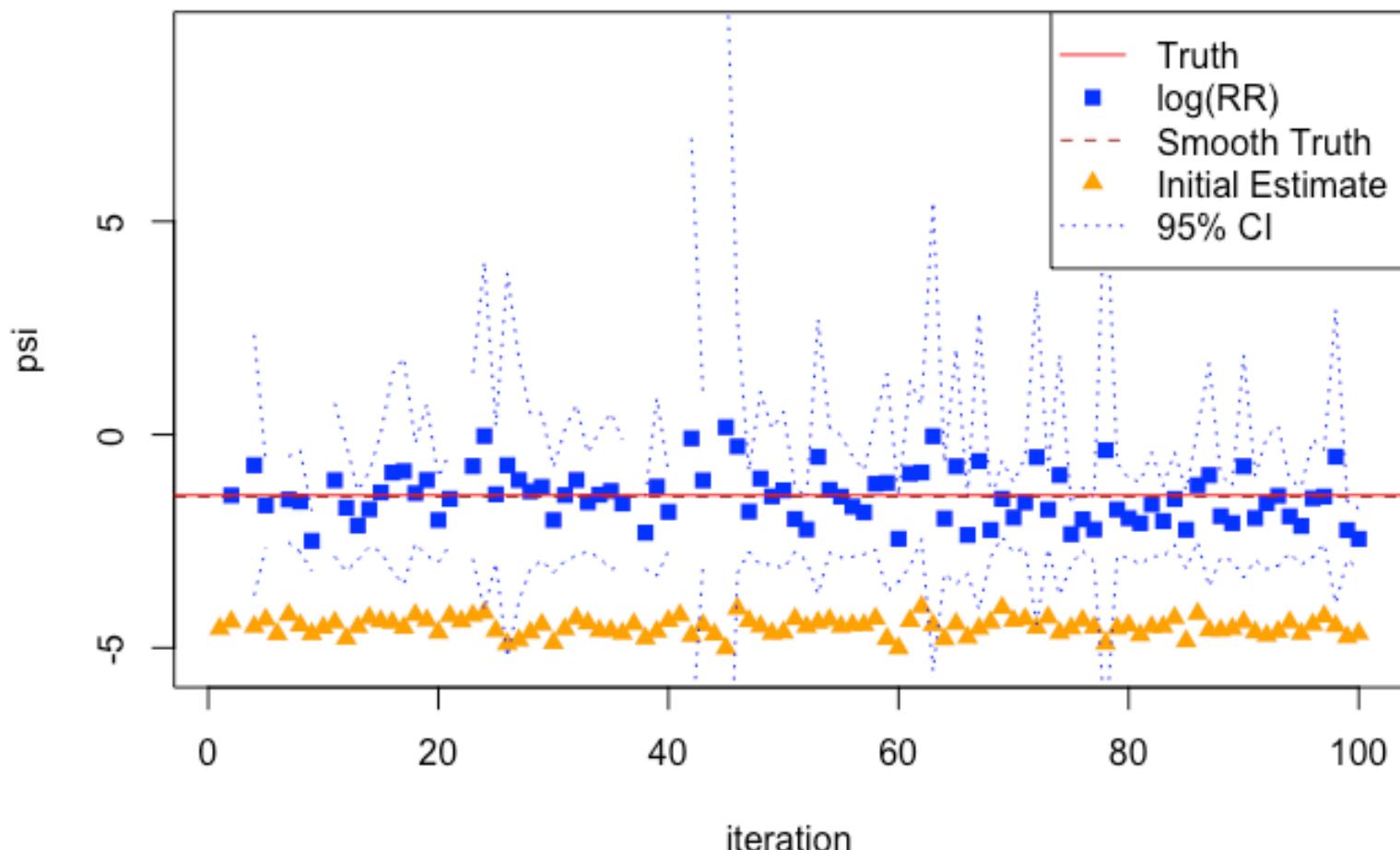
s1=0.3 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



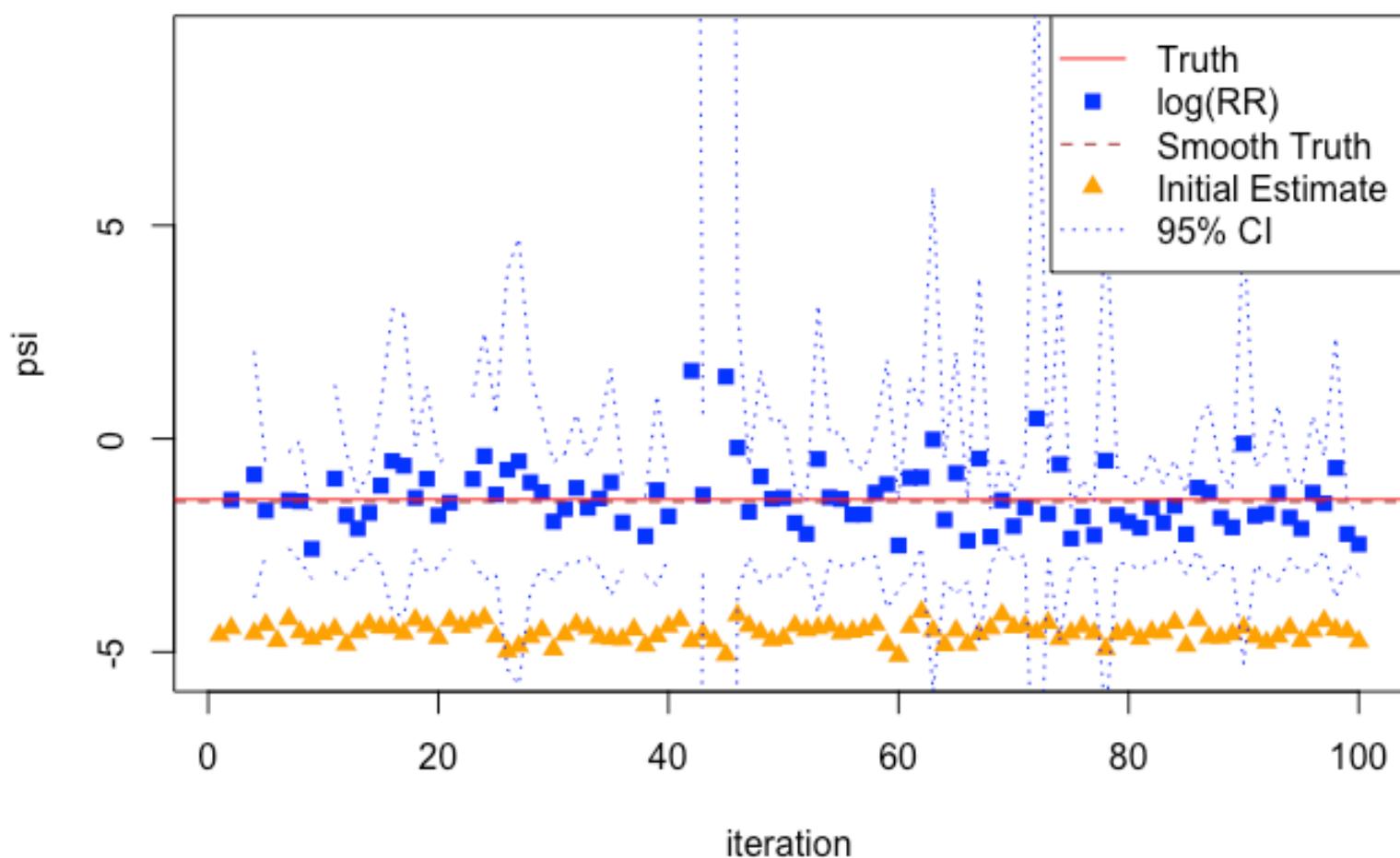
s1=0.4 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



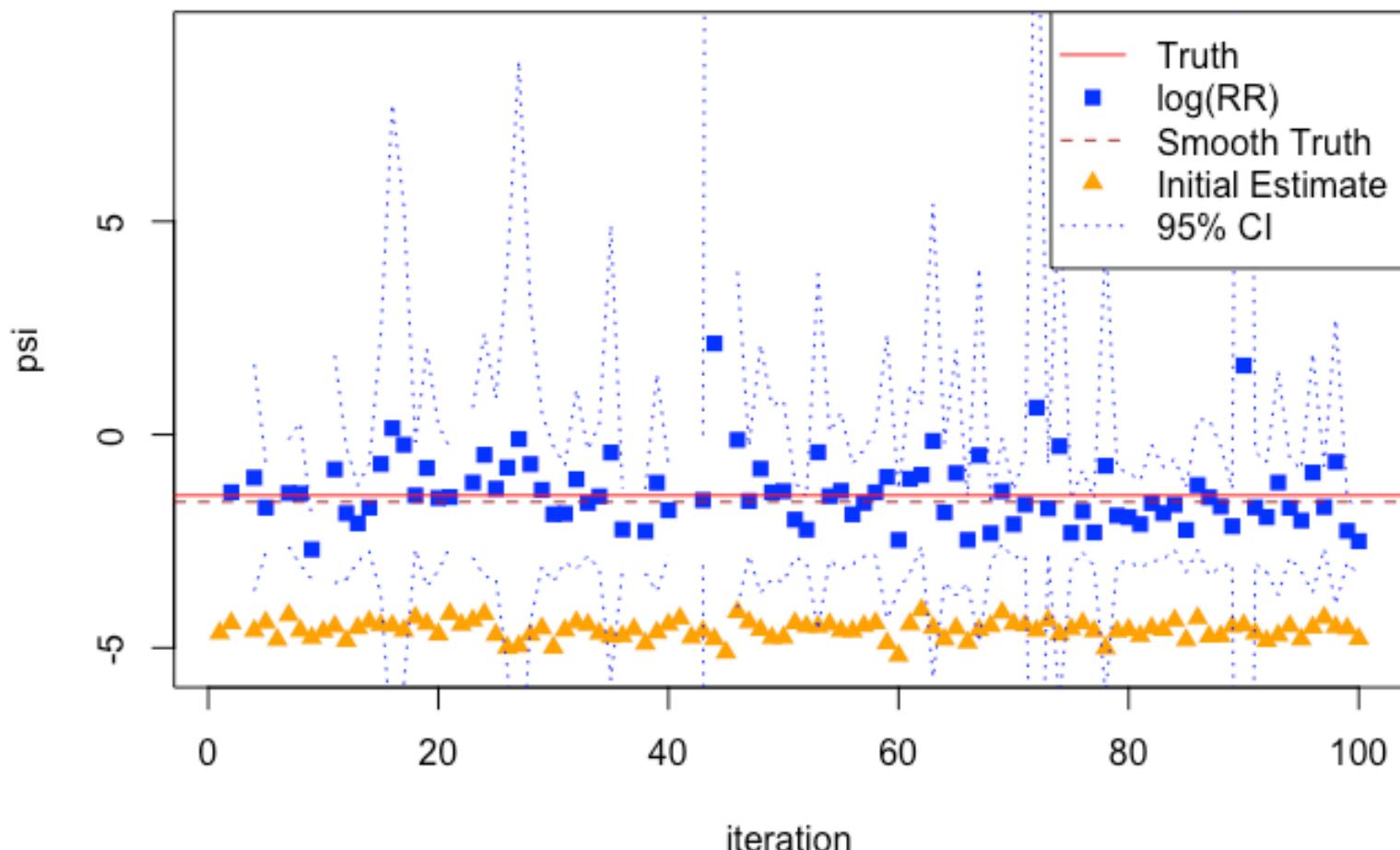
s1=0.5 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



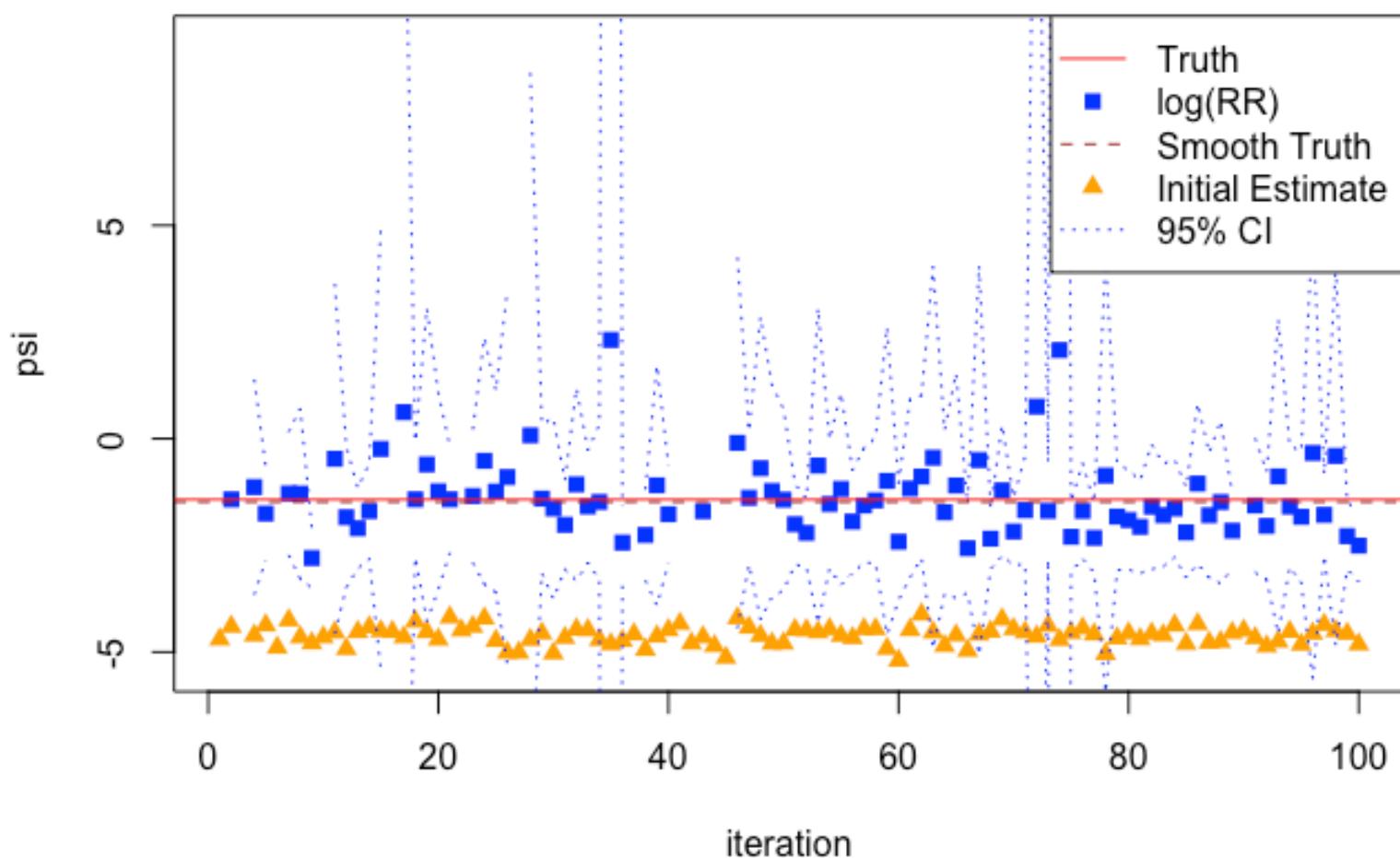
s1=0.6 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



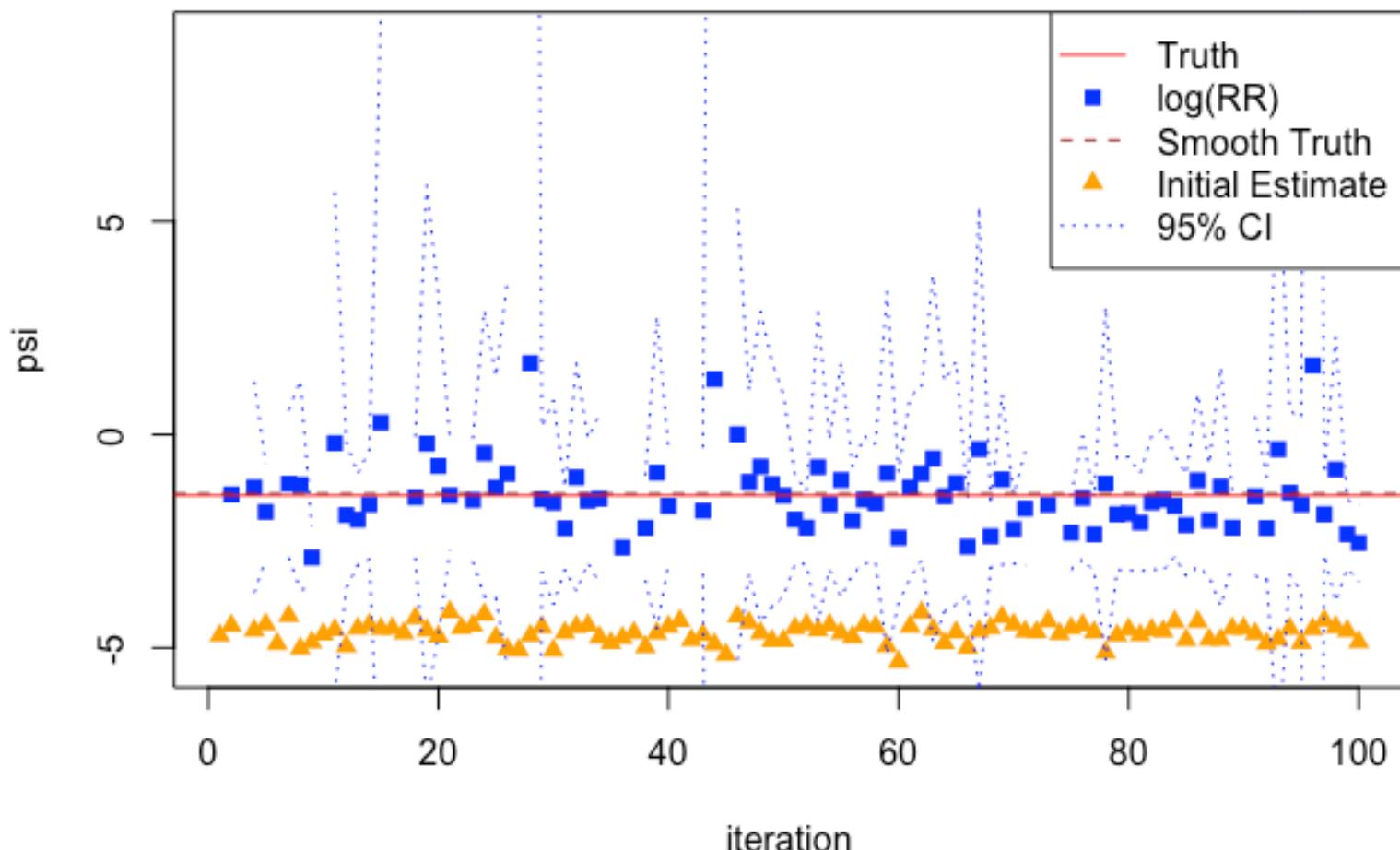
s1=0.7 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



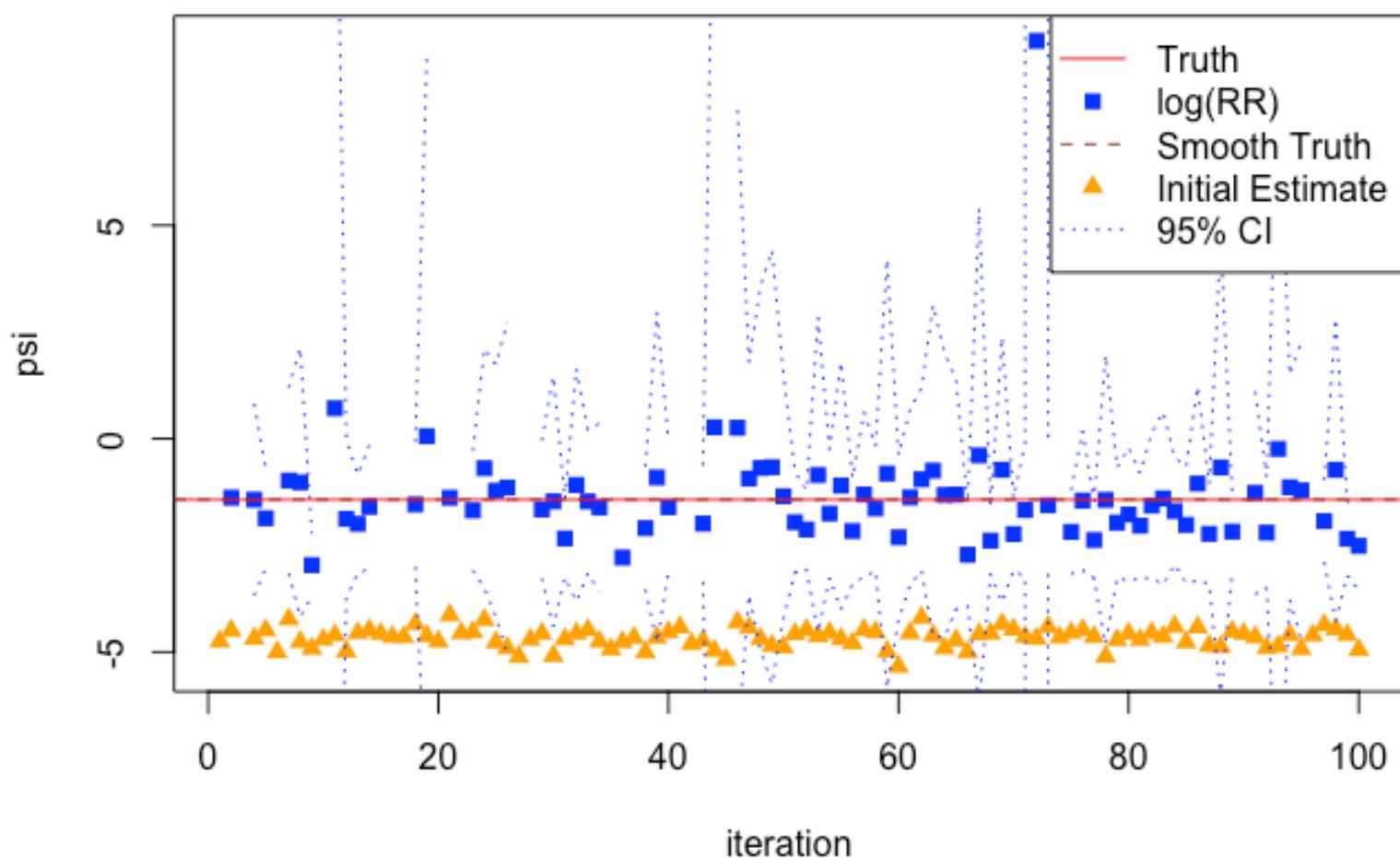
s1=0.8 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



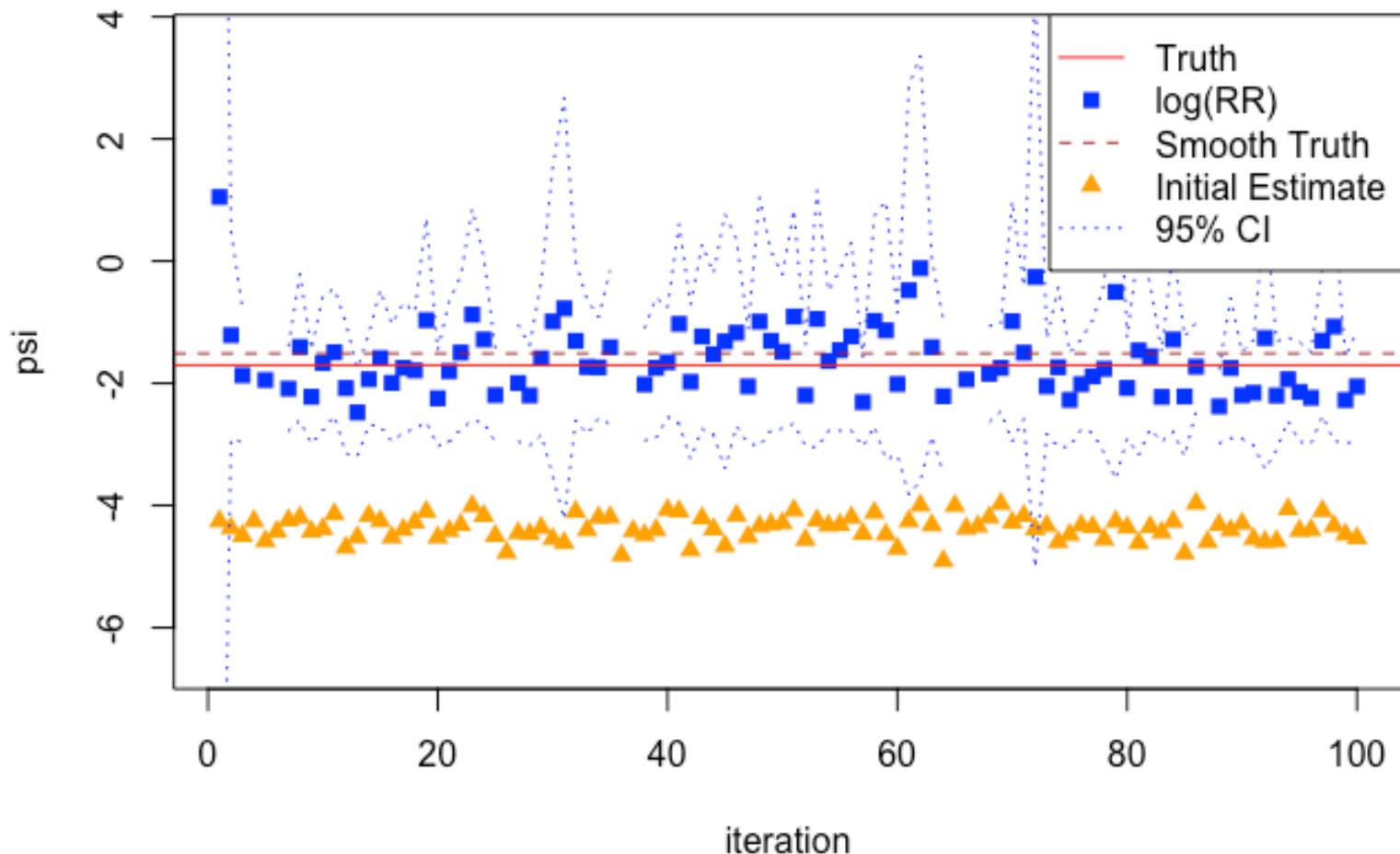
s1=0.9 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



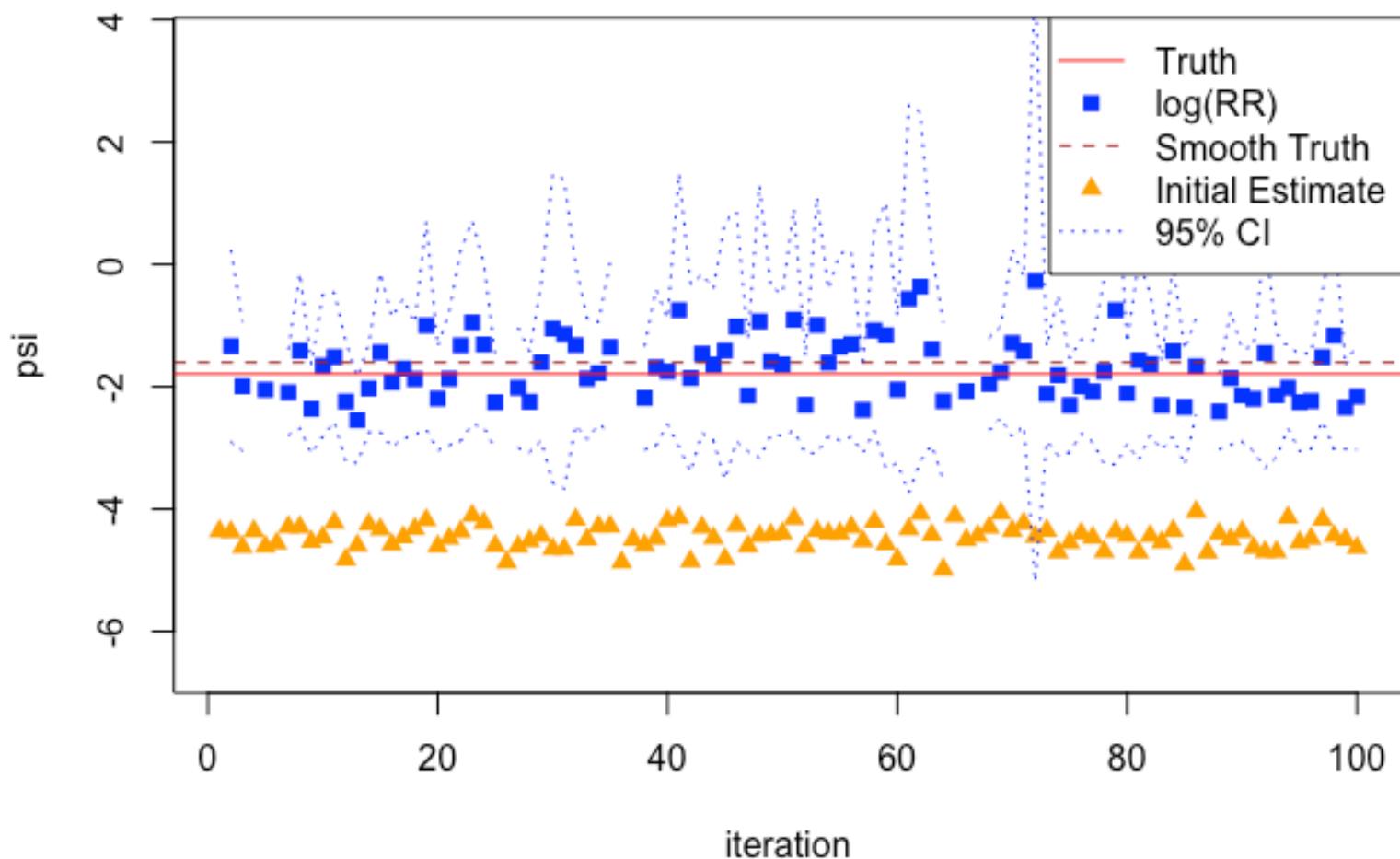
s1=1 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



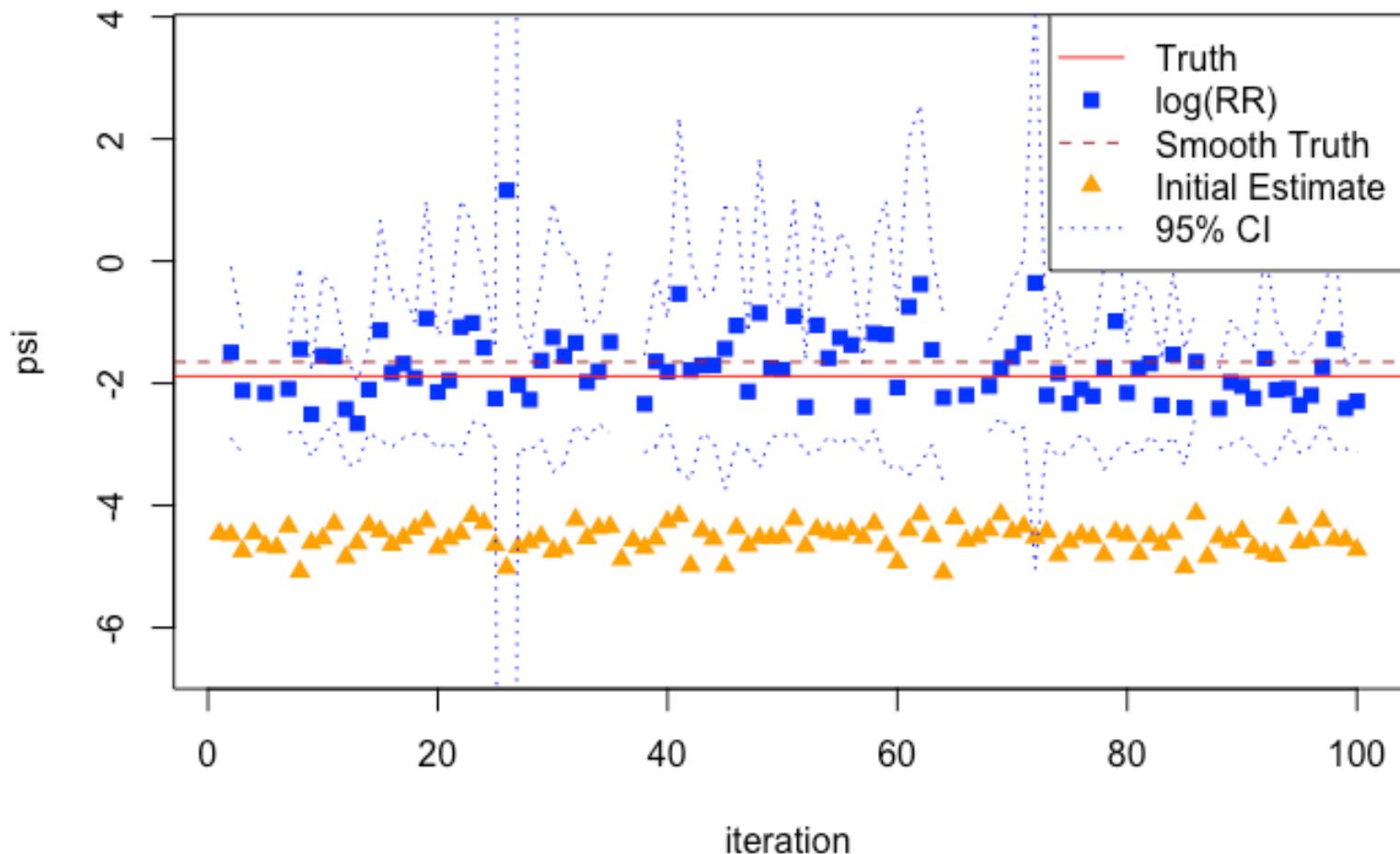
s1=0 Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



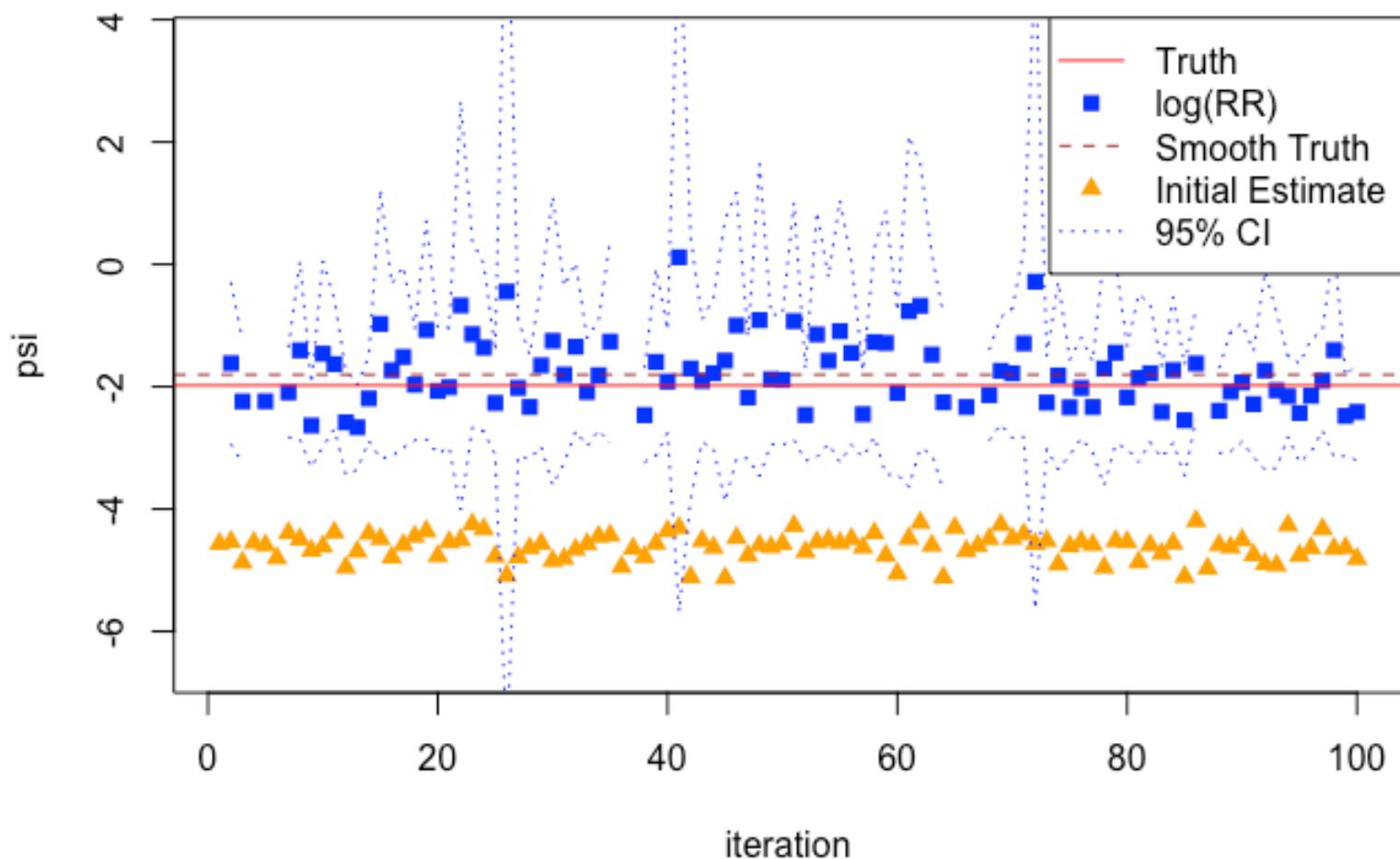
s1=0.1 Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



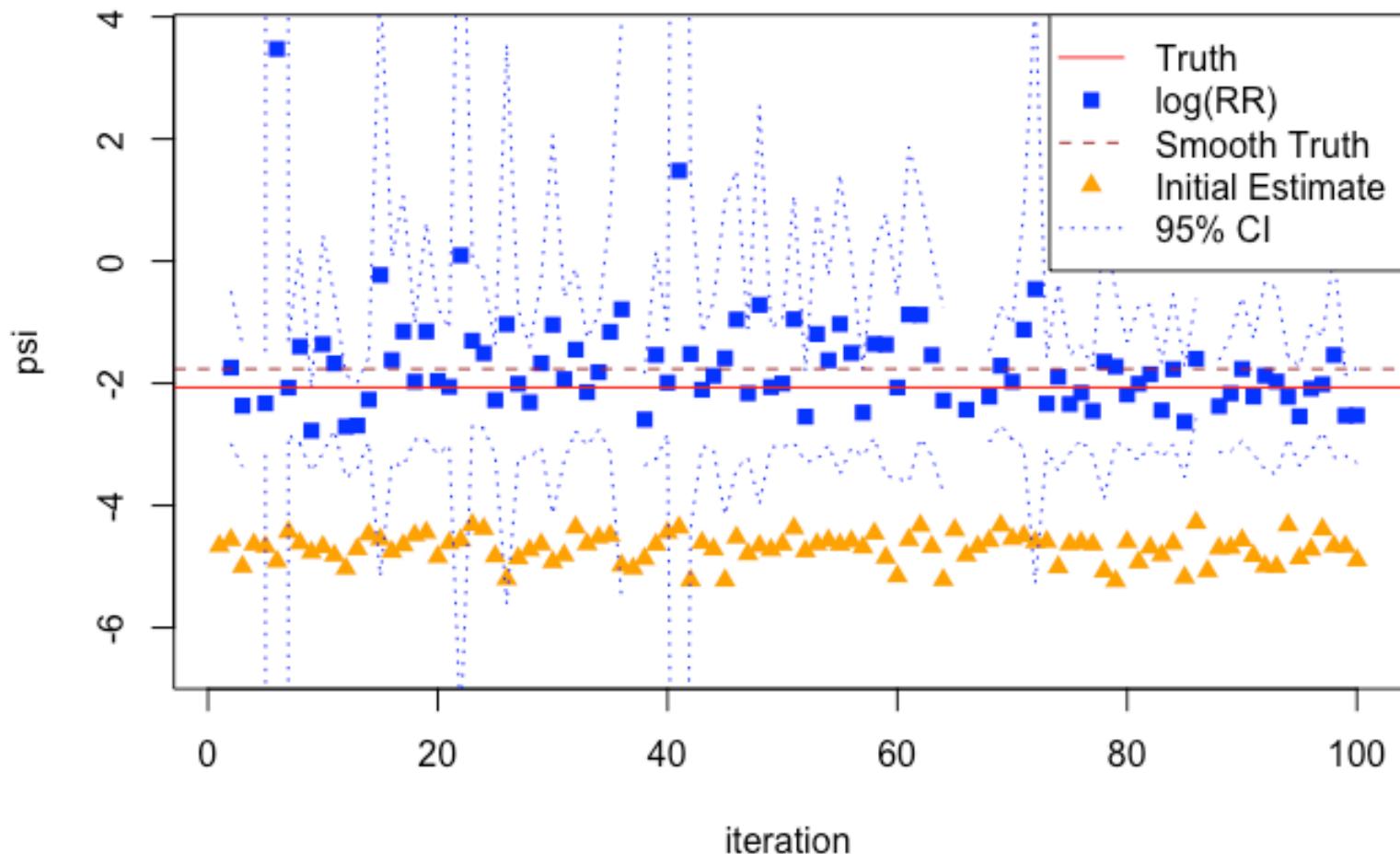
$s_1=0.2$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



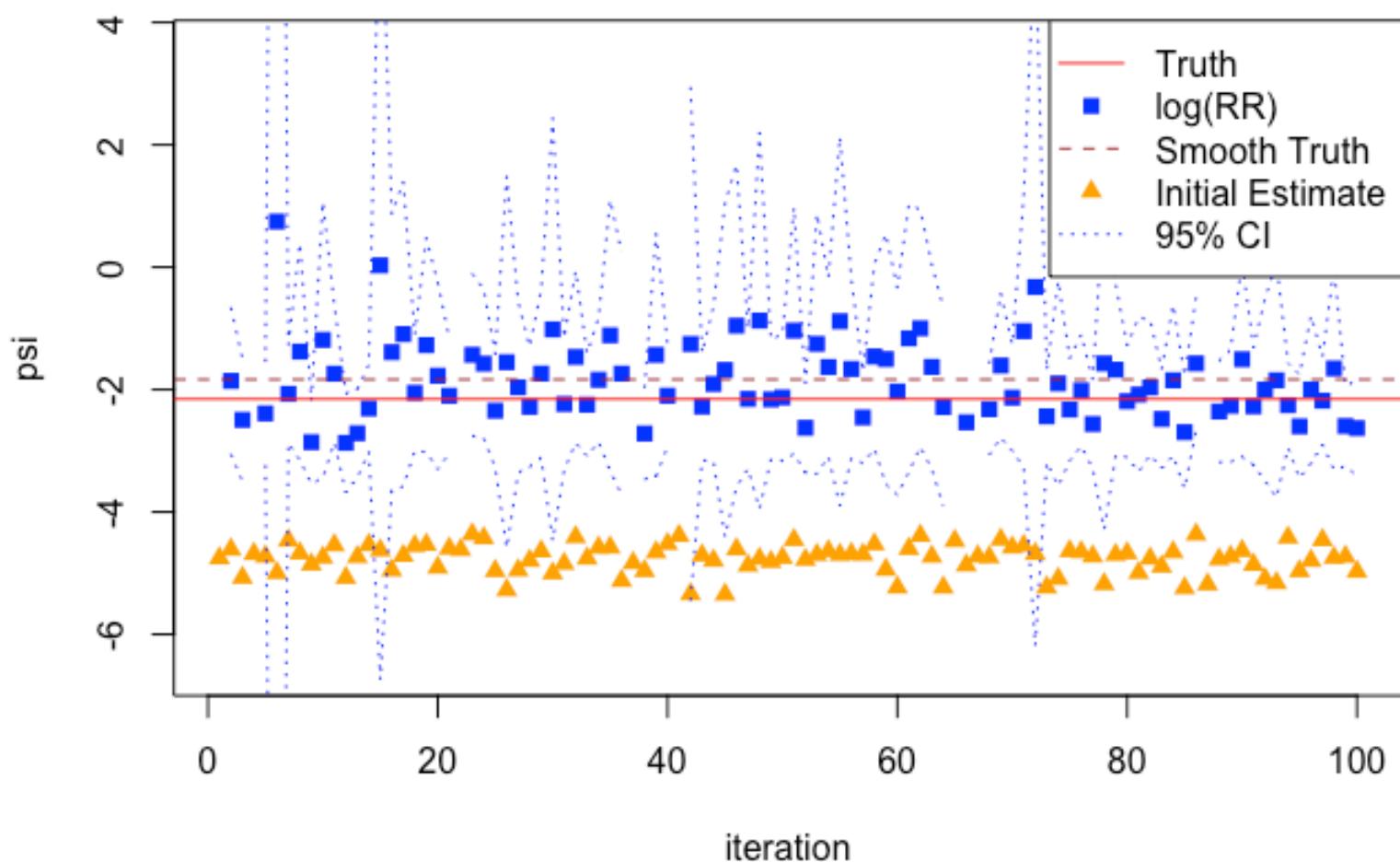
$s_1=0.3$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



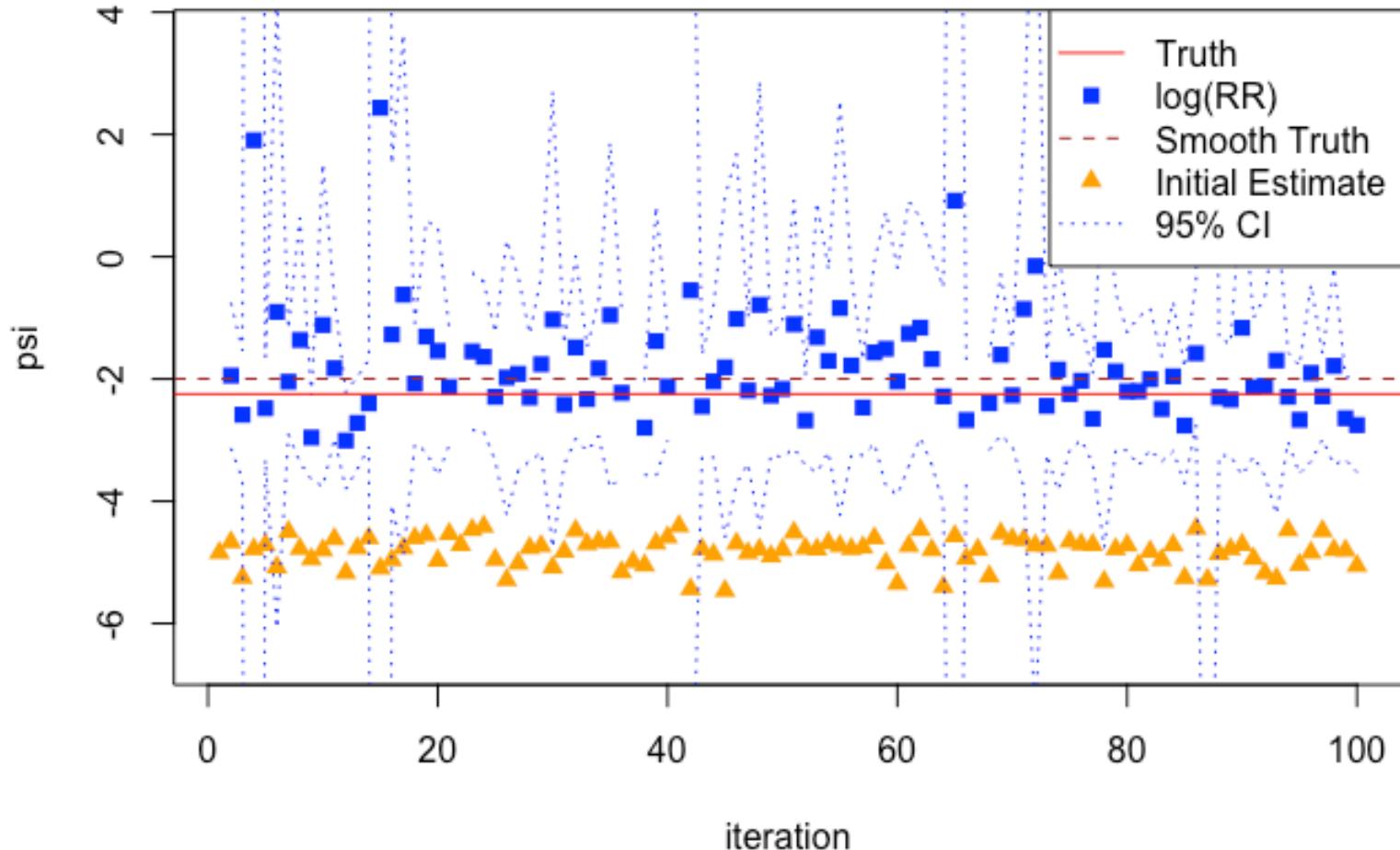
$s_1=0.4$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=0.5, sample rate=0.25



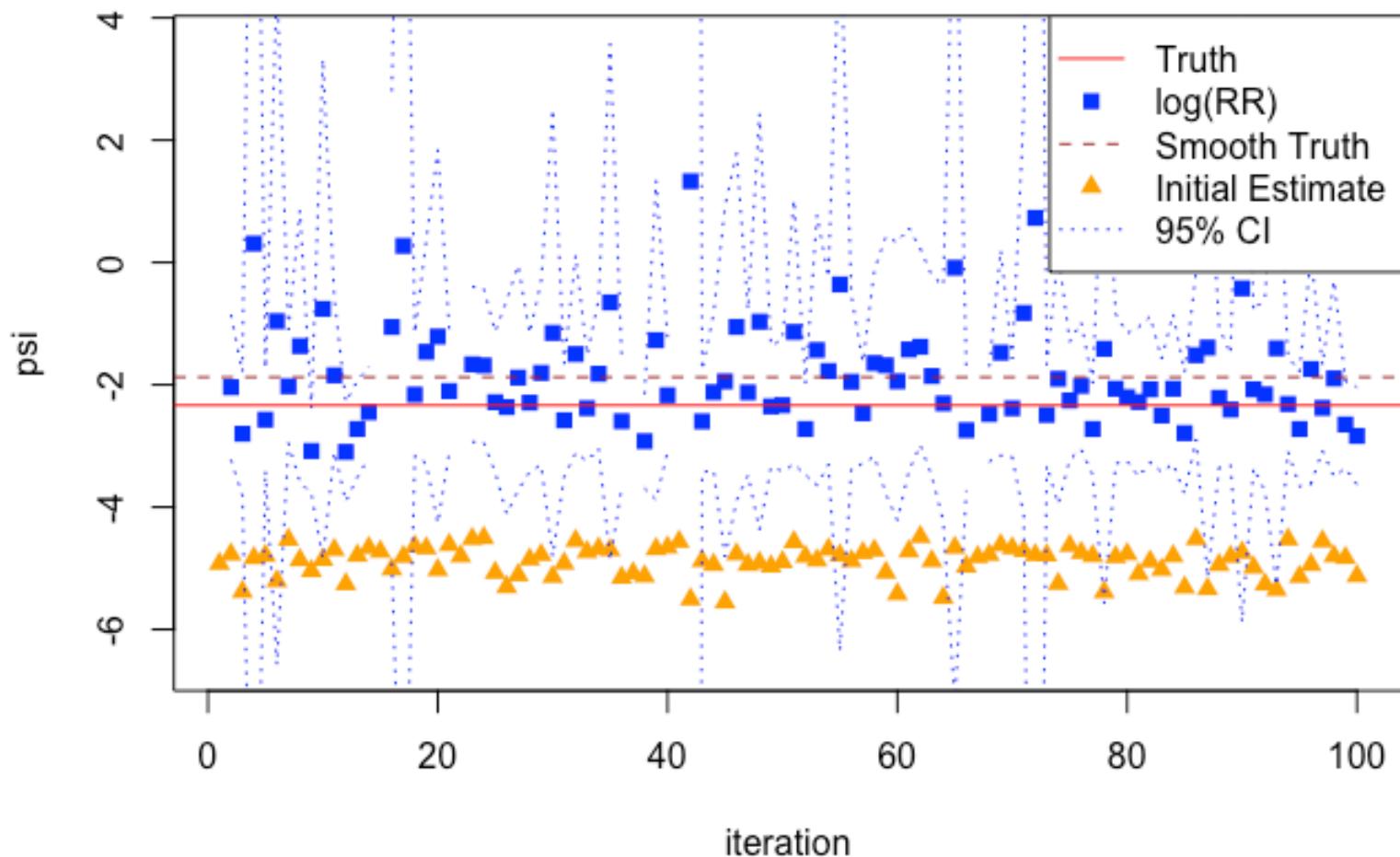
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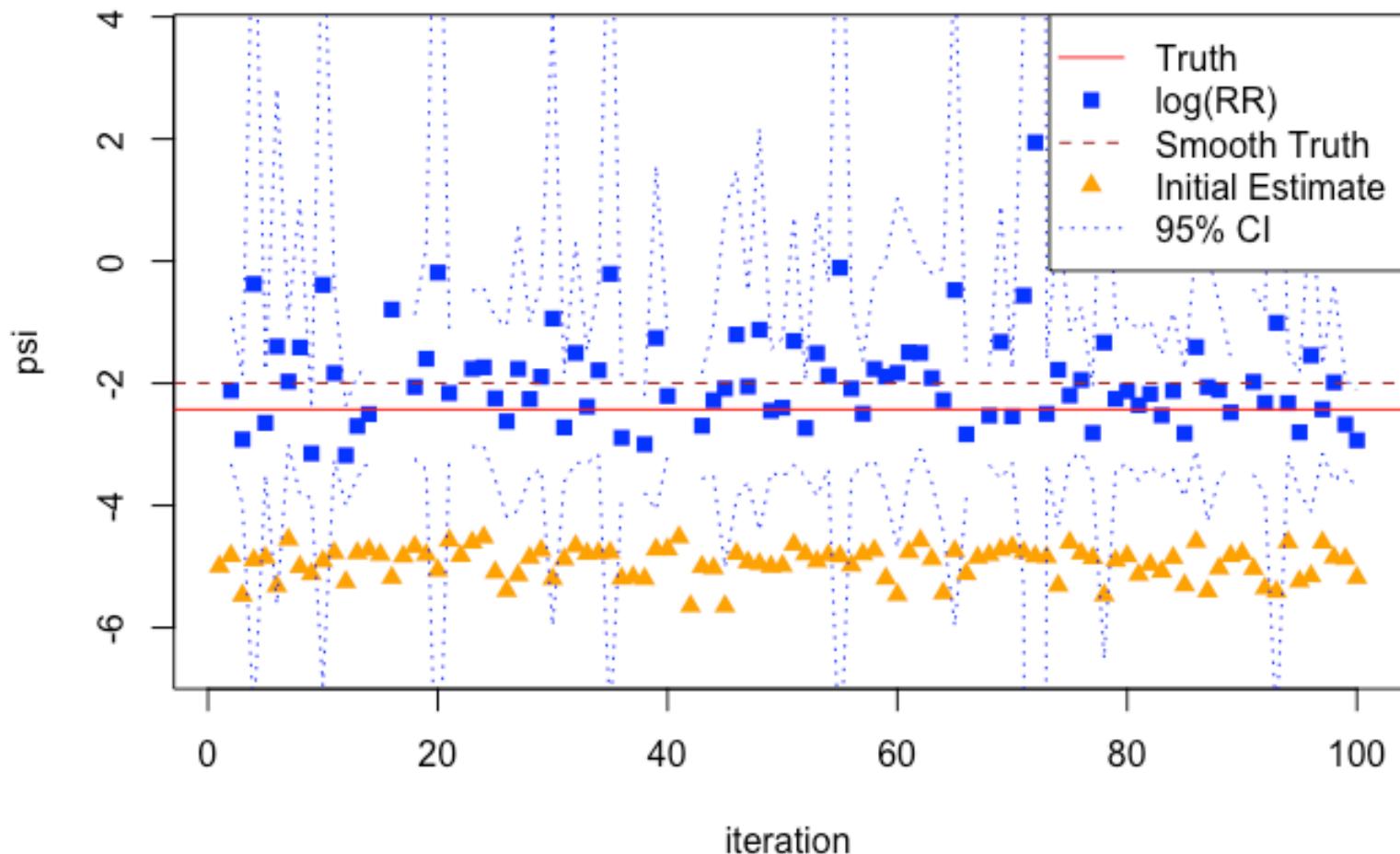
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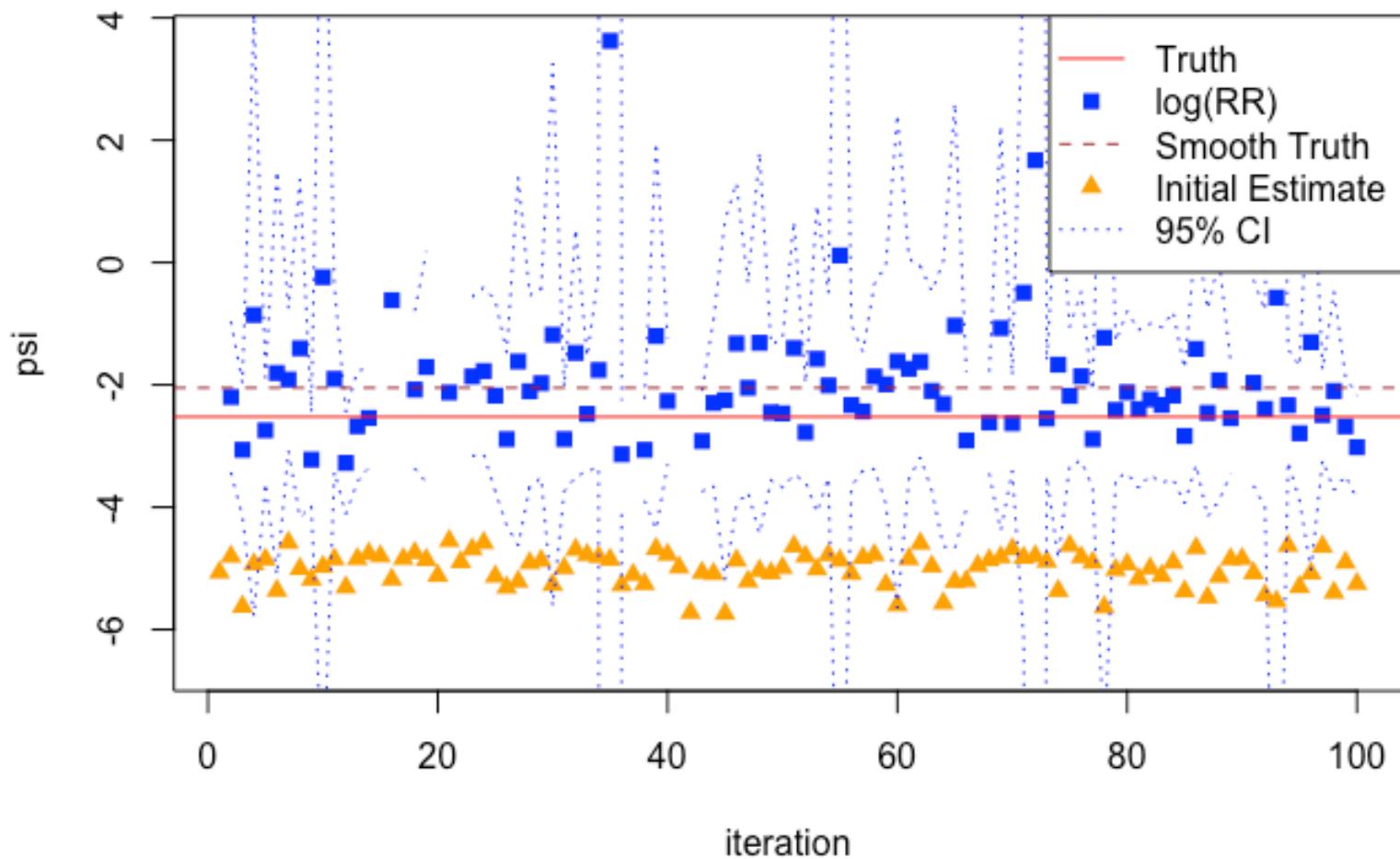
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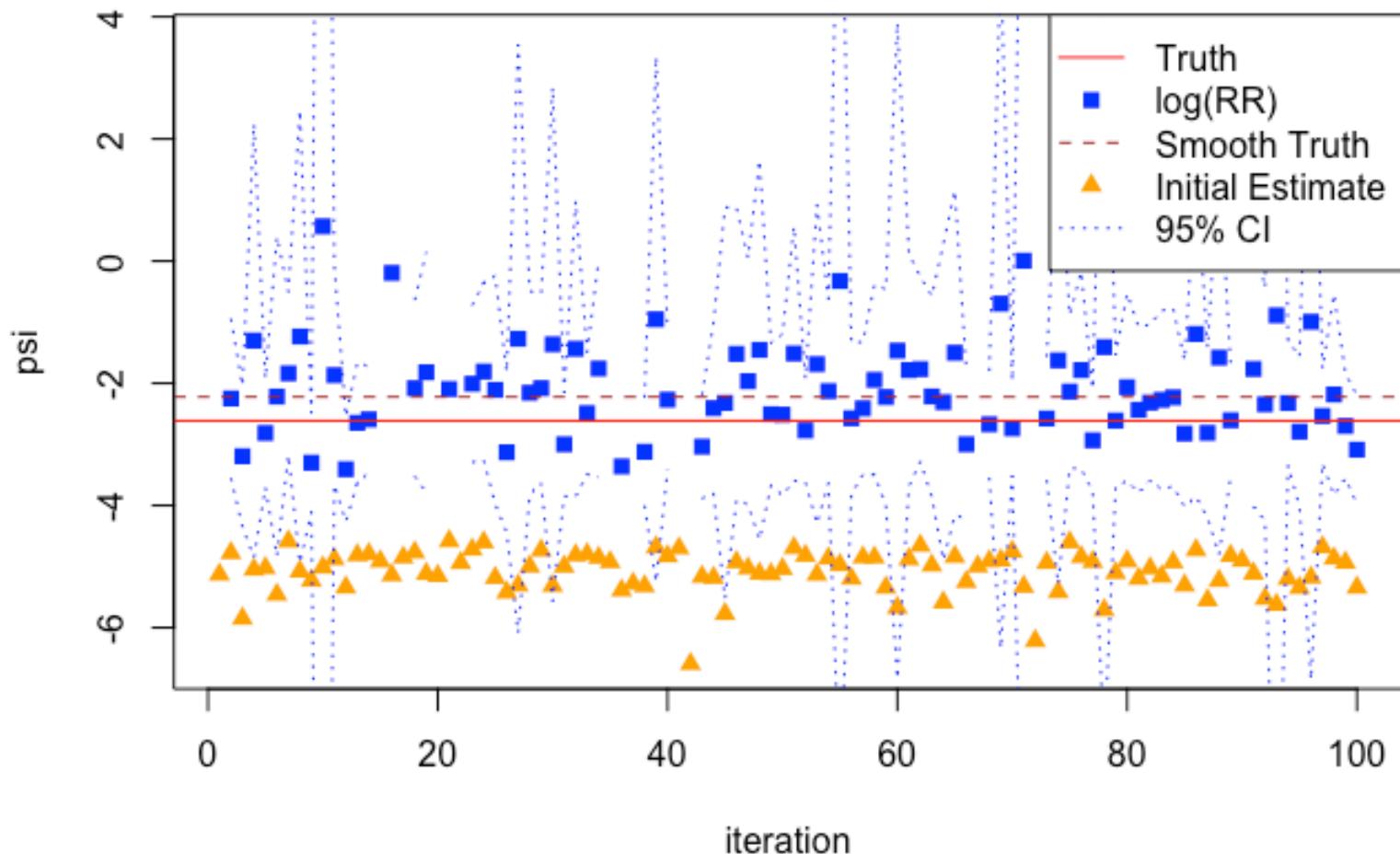
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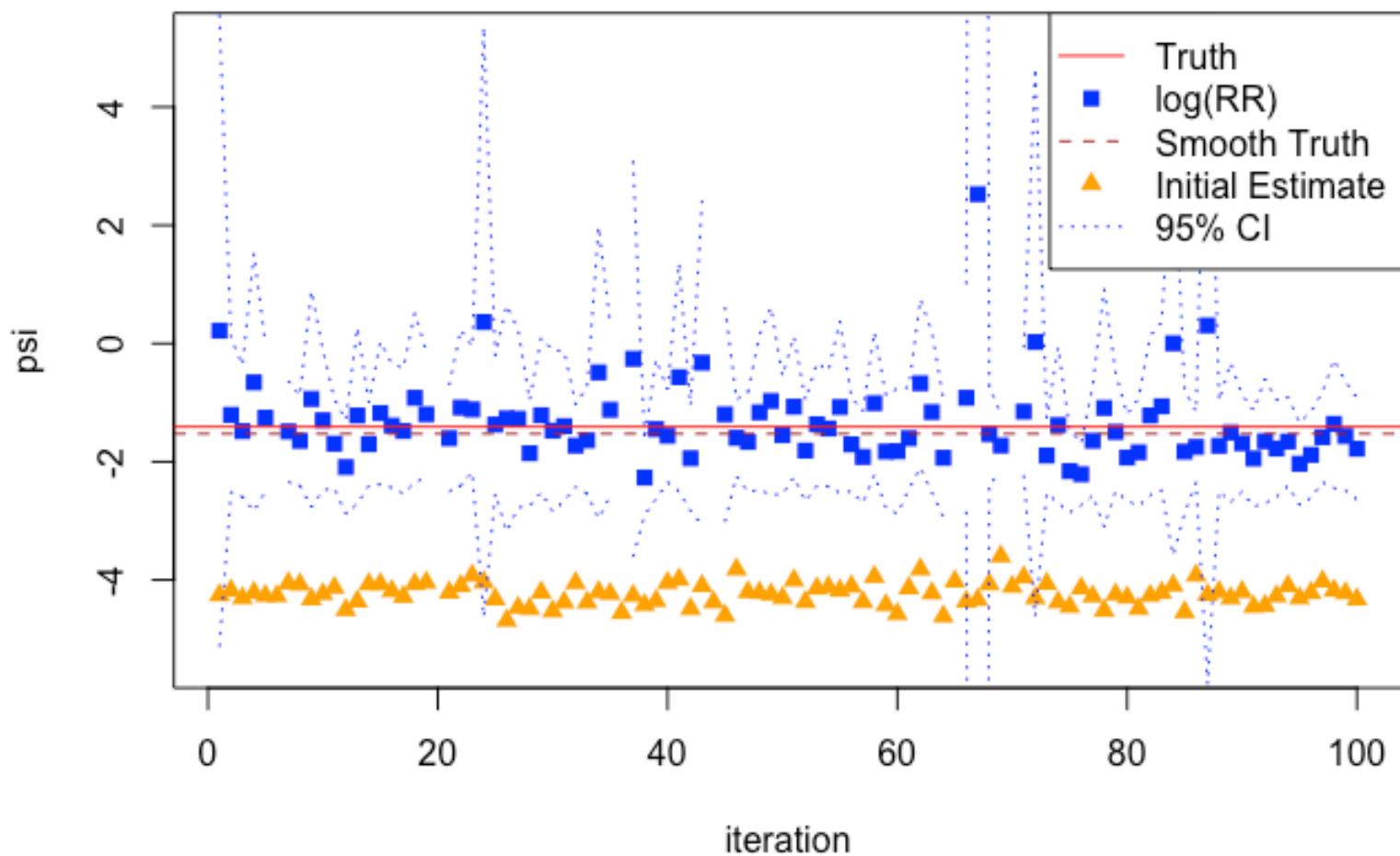
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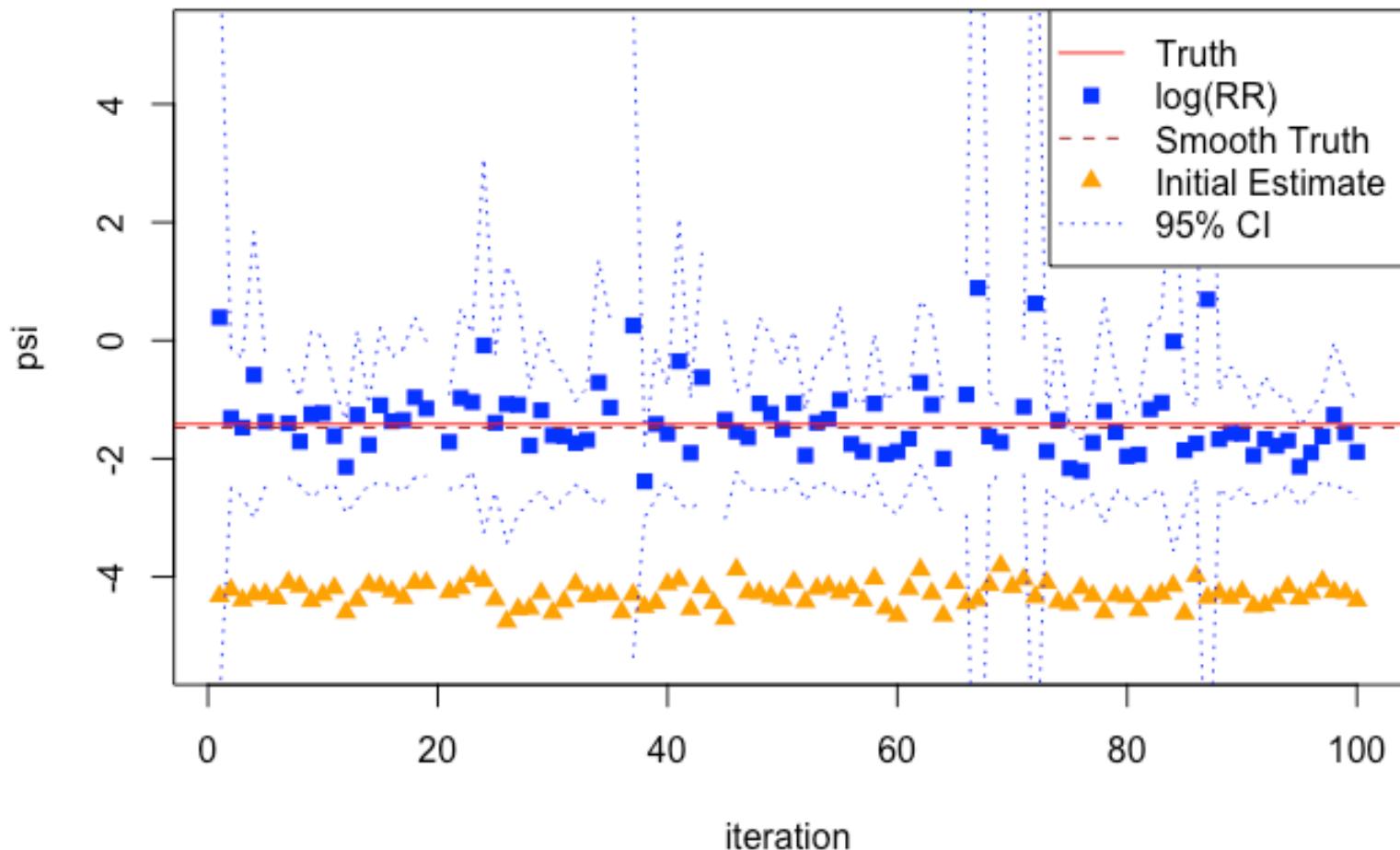
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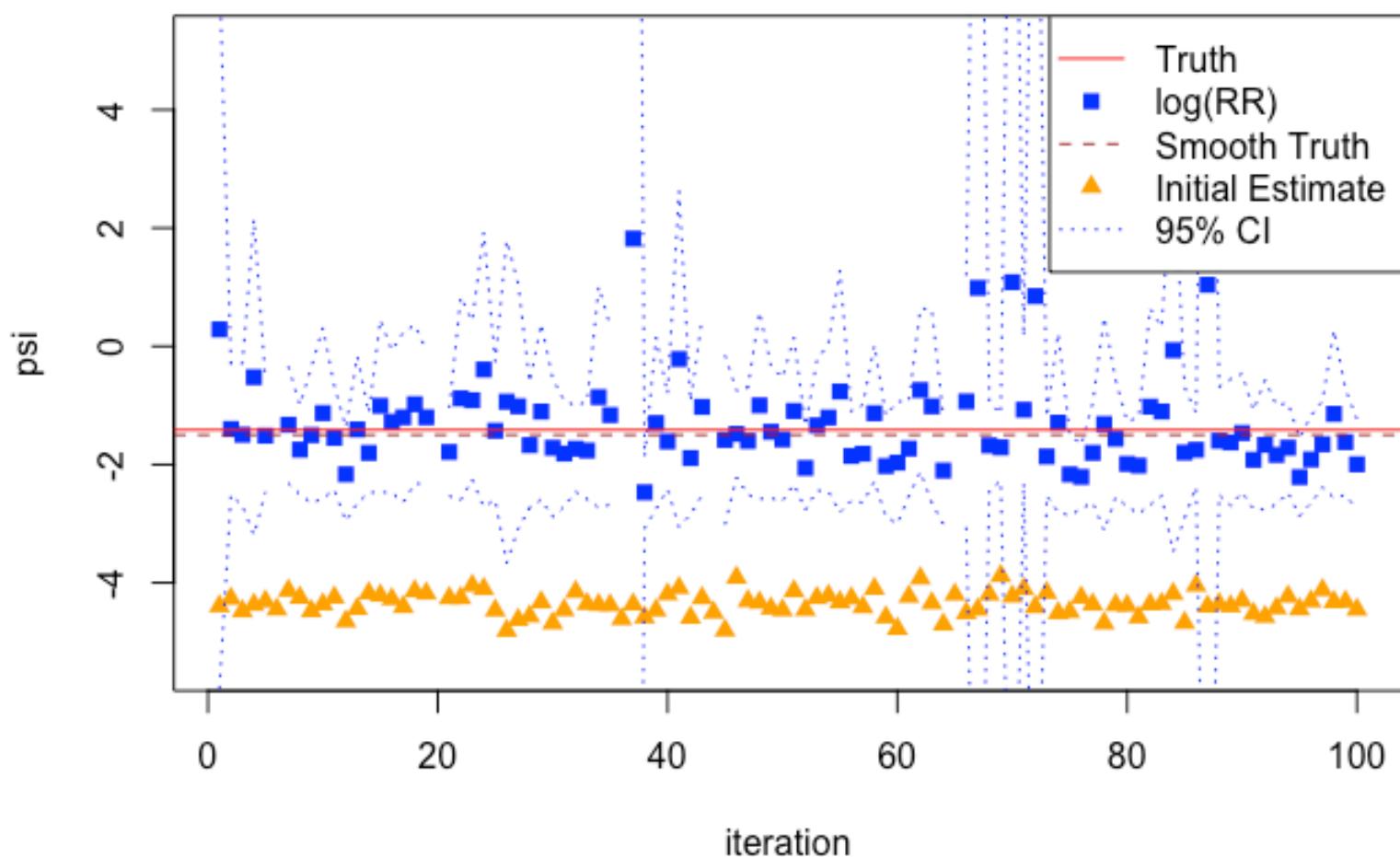
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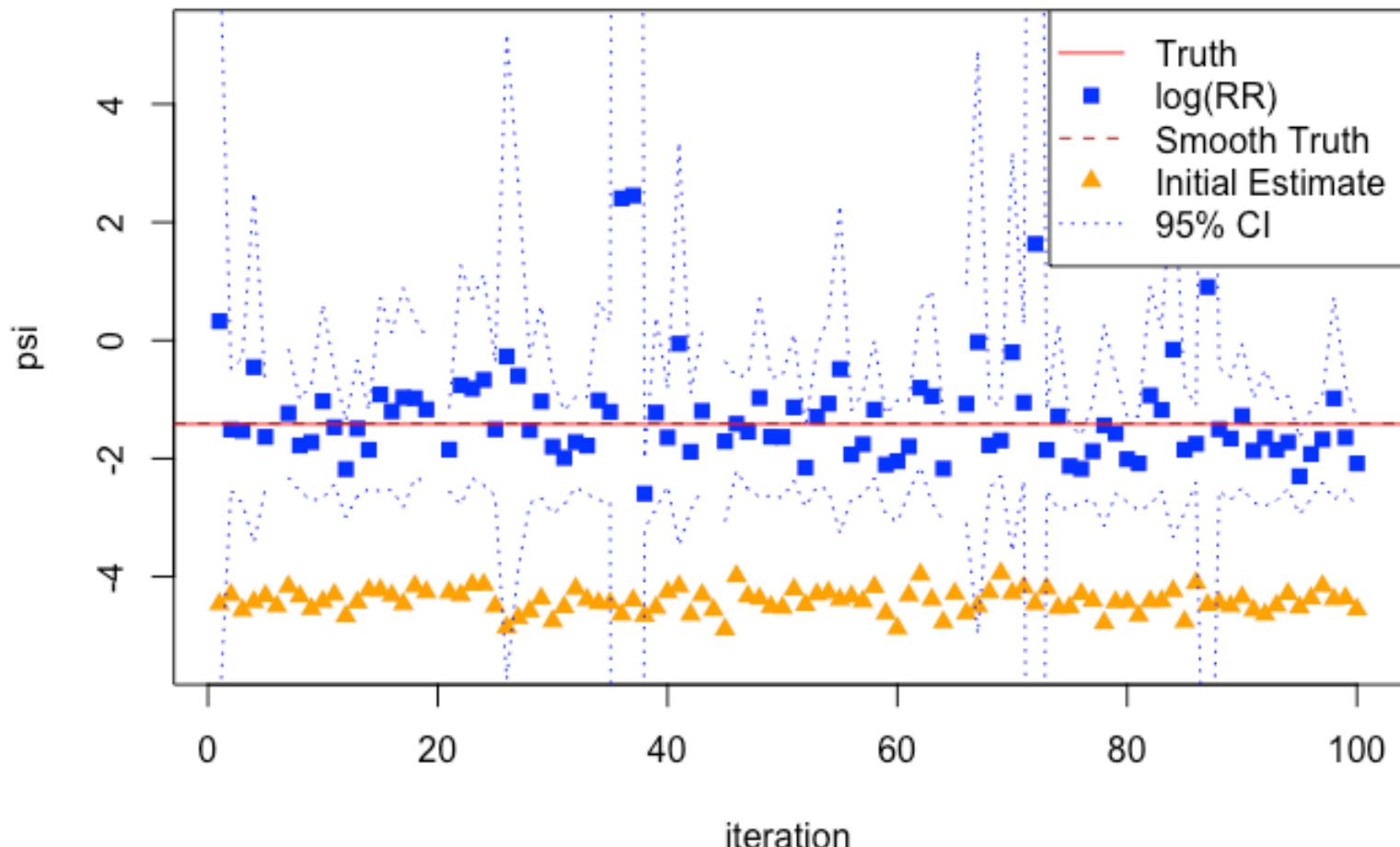
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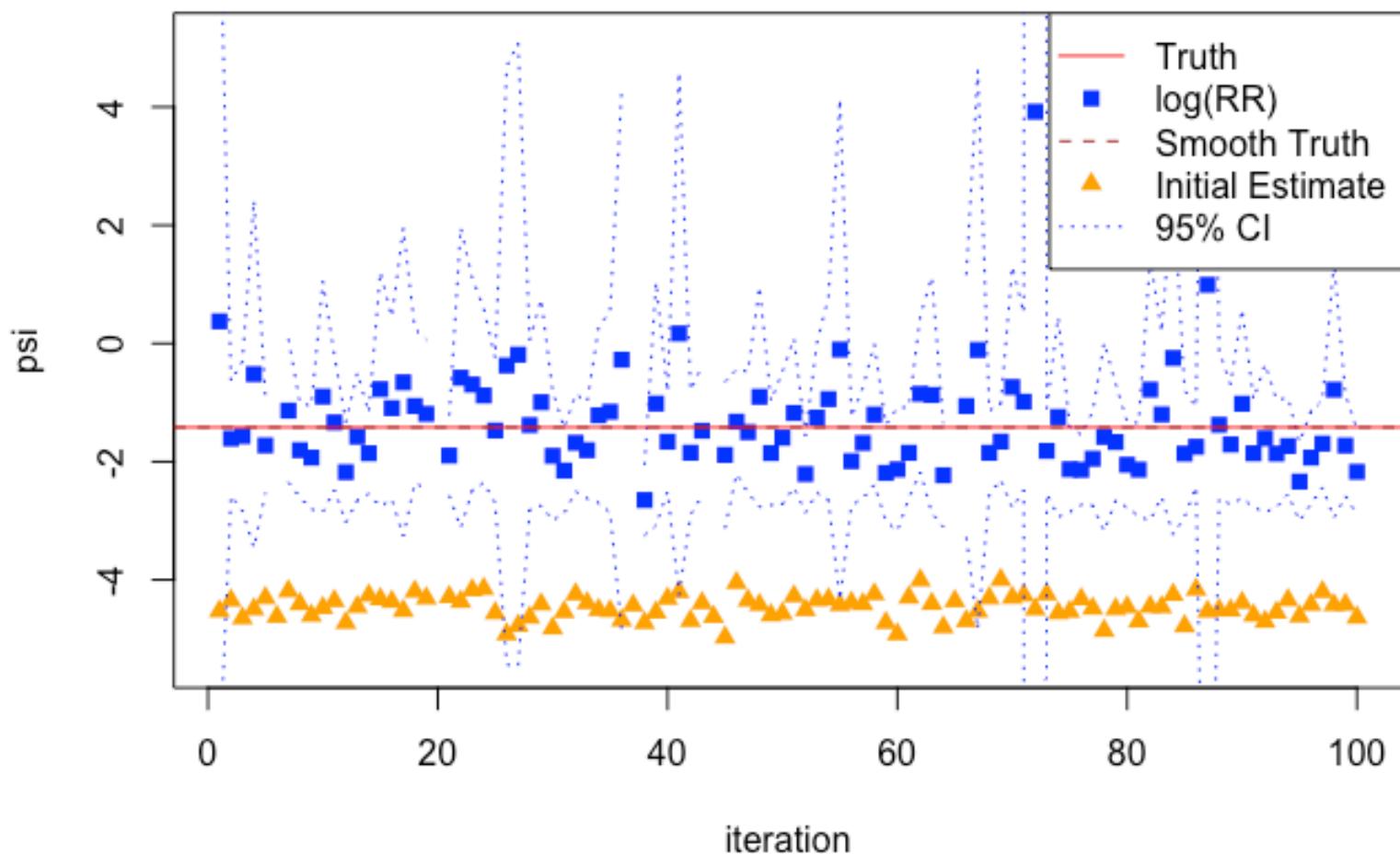
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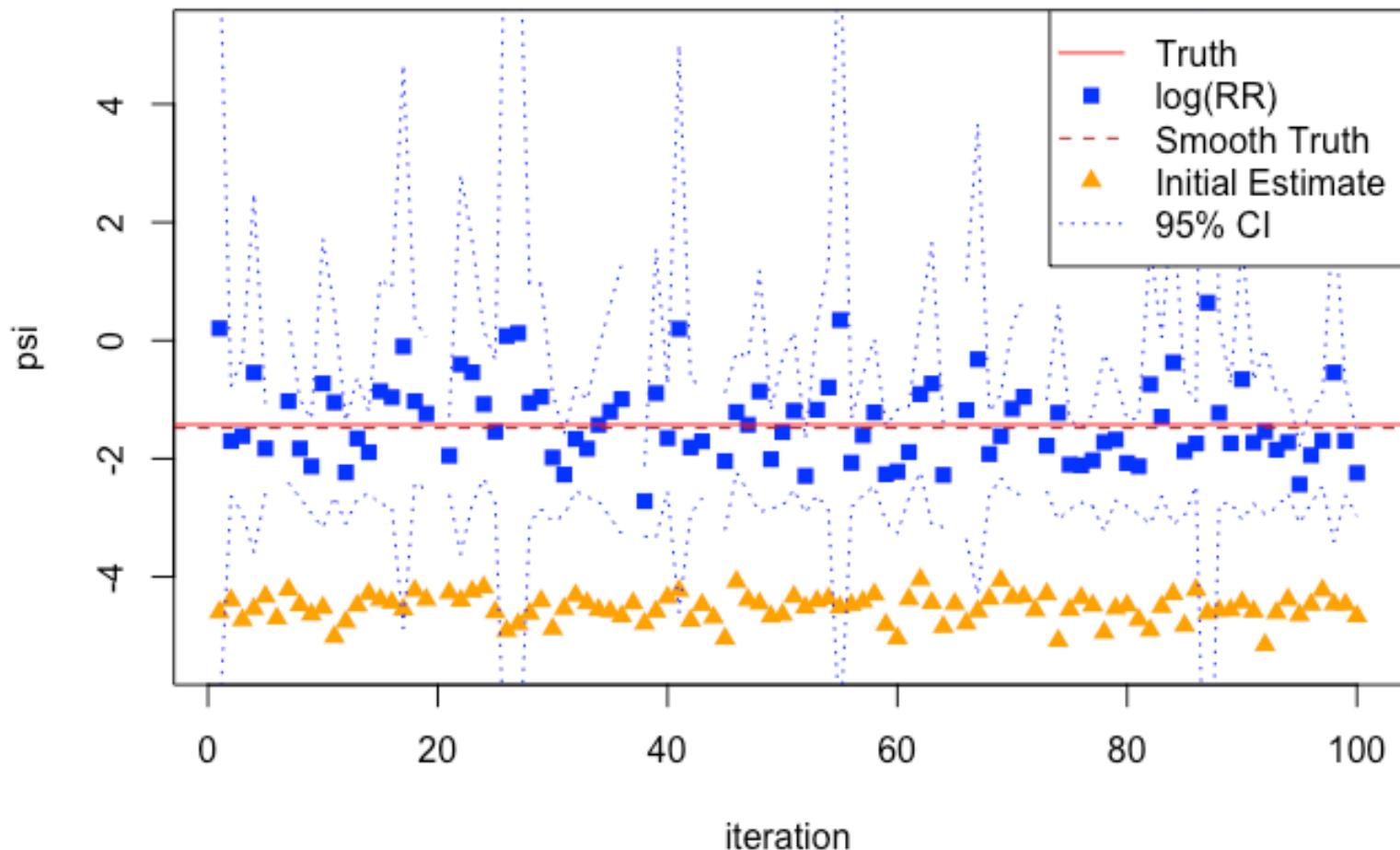
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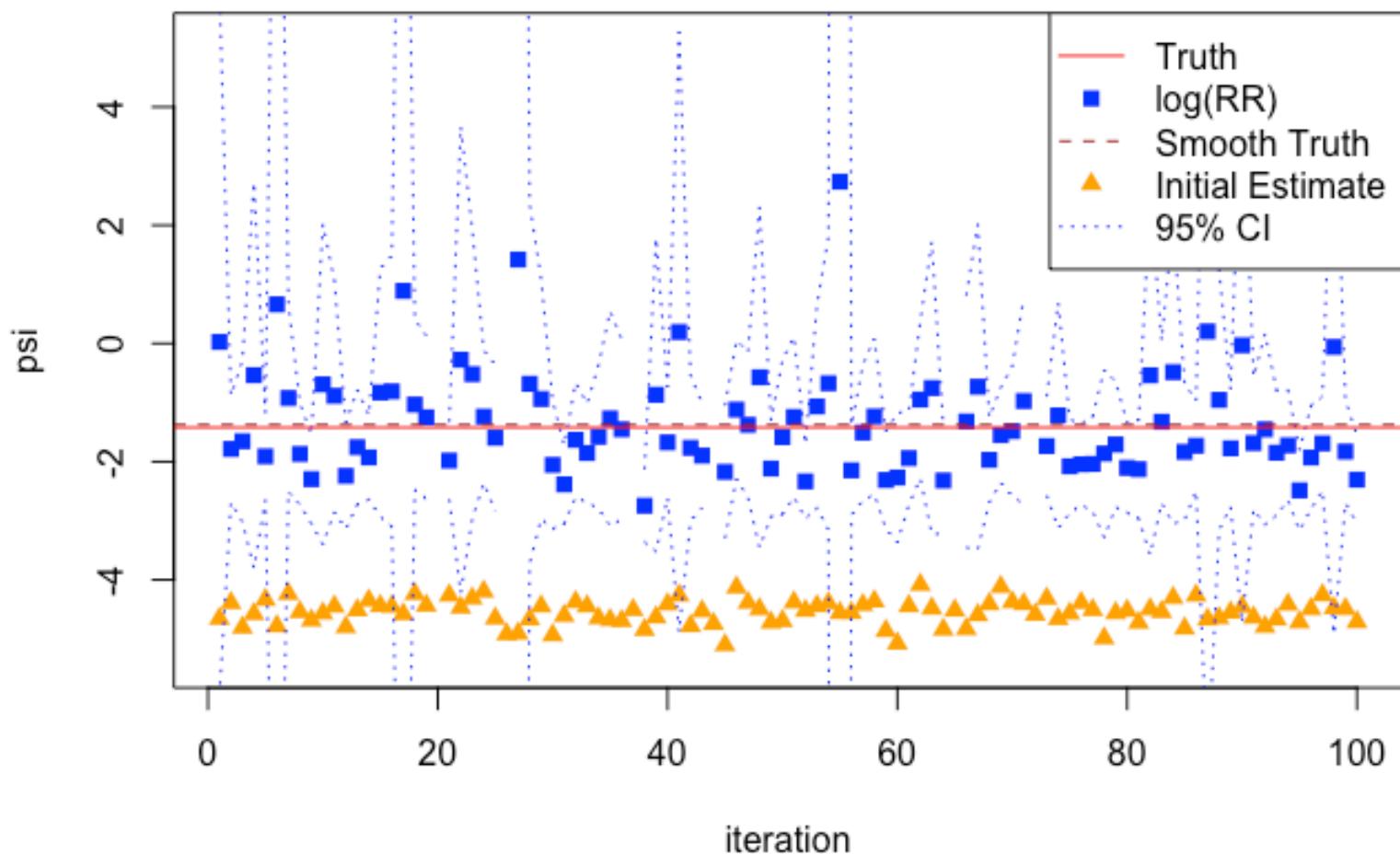
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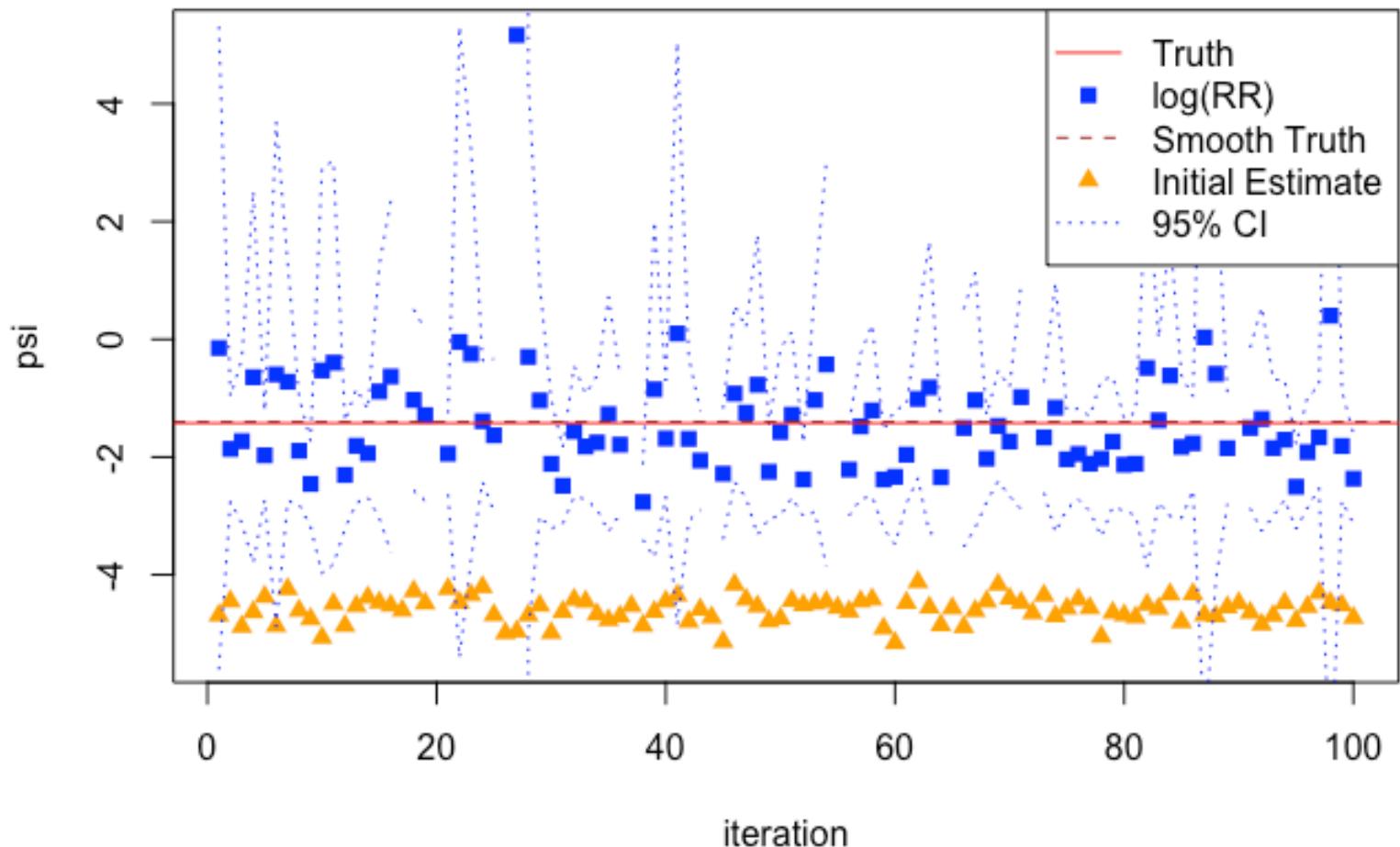
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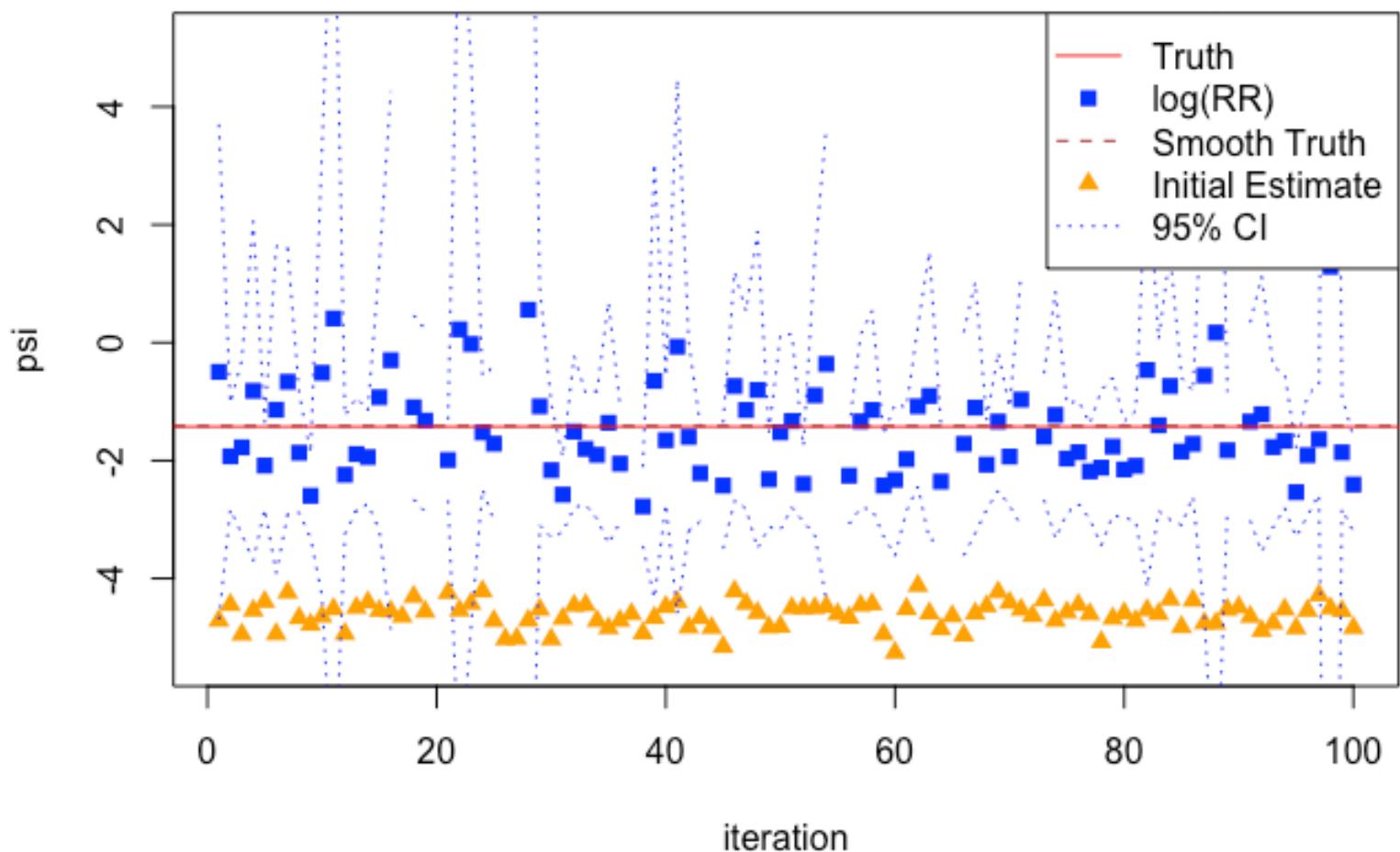
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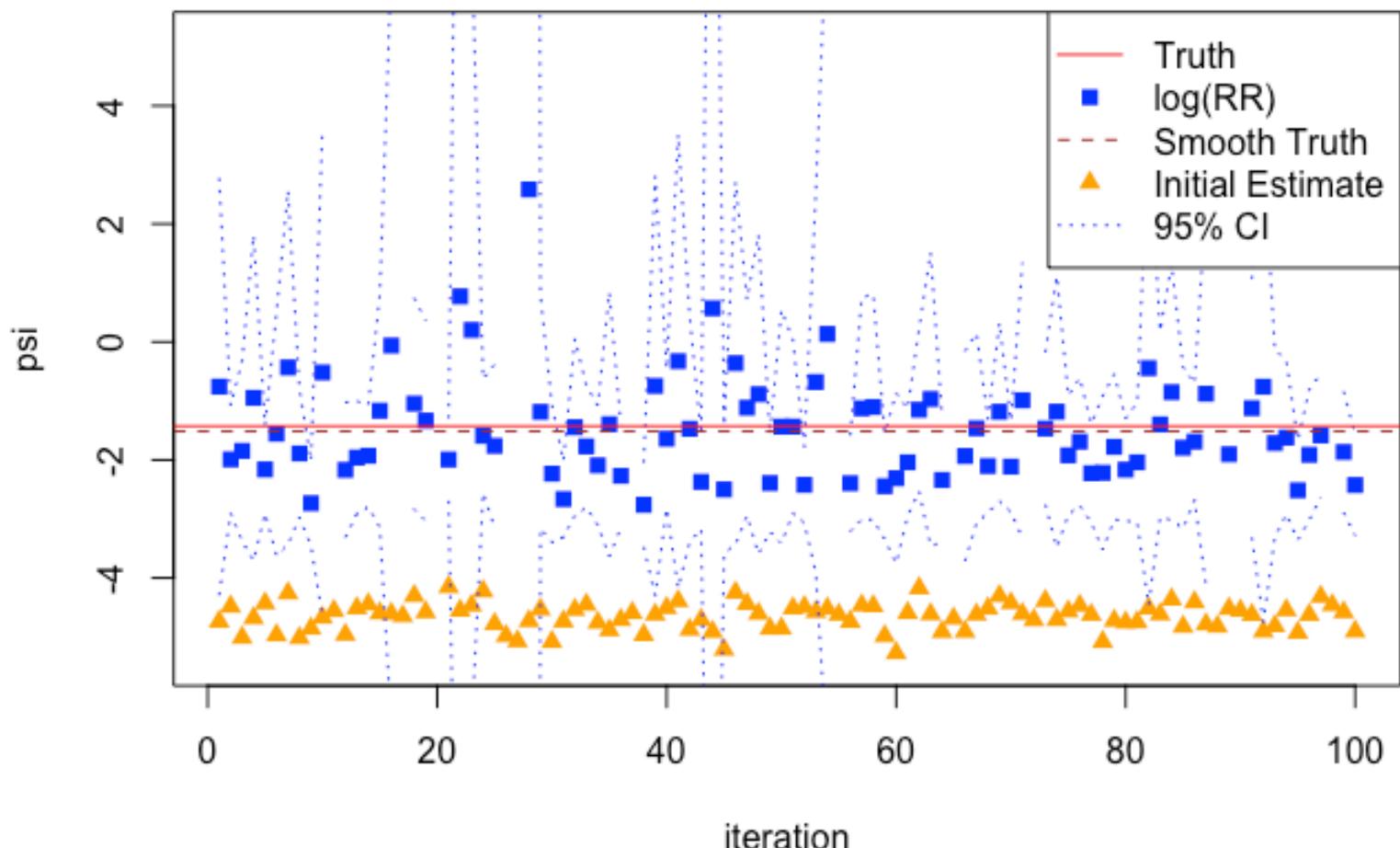
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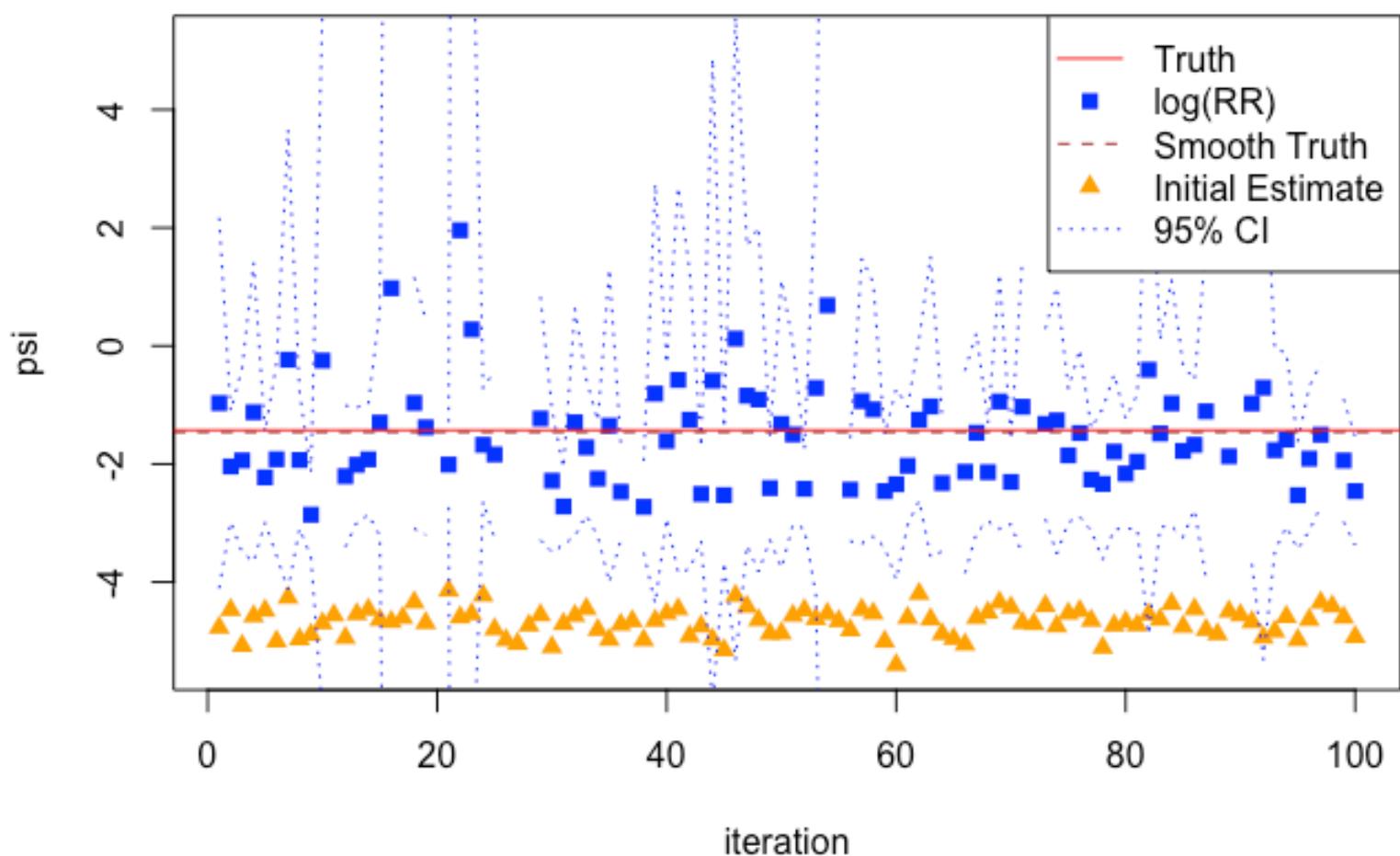
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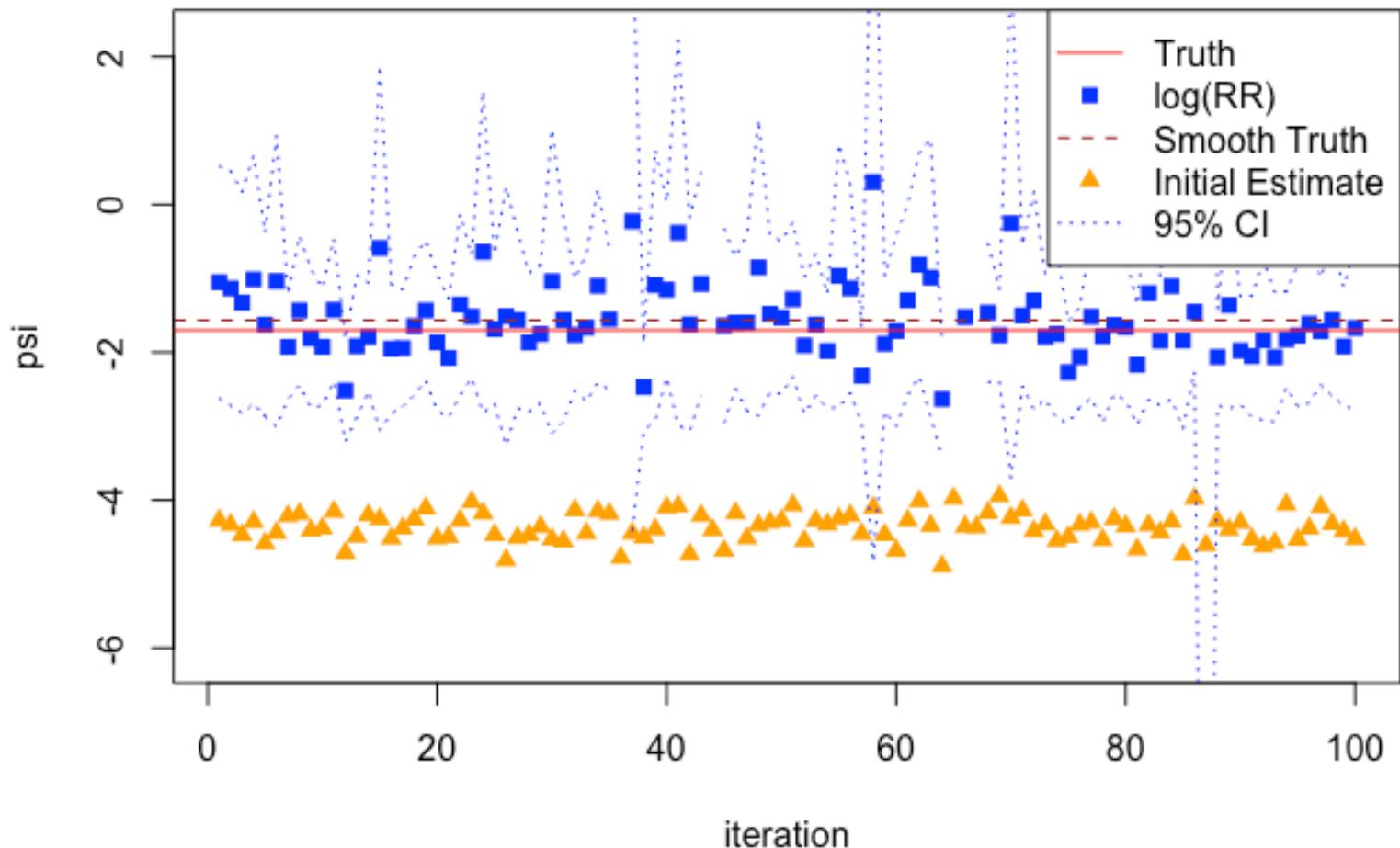
s1=0.9 Null case for cor(S1,W)=0.5, crossover rate=0.5, sample rate=0.5



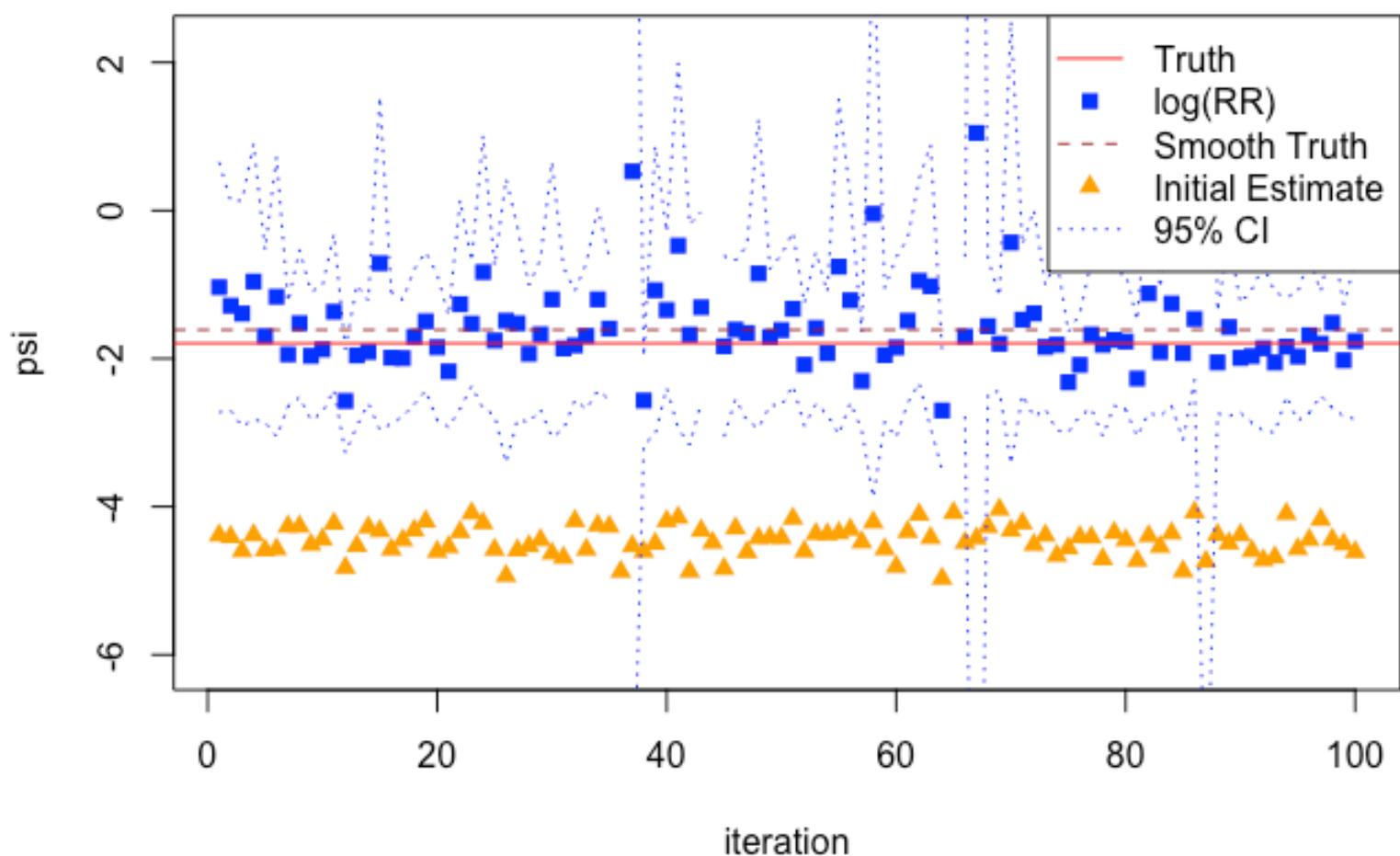
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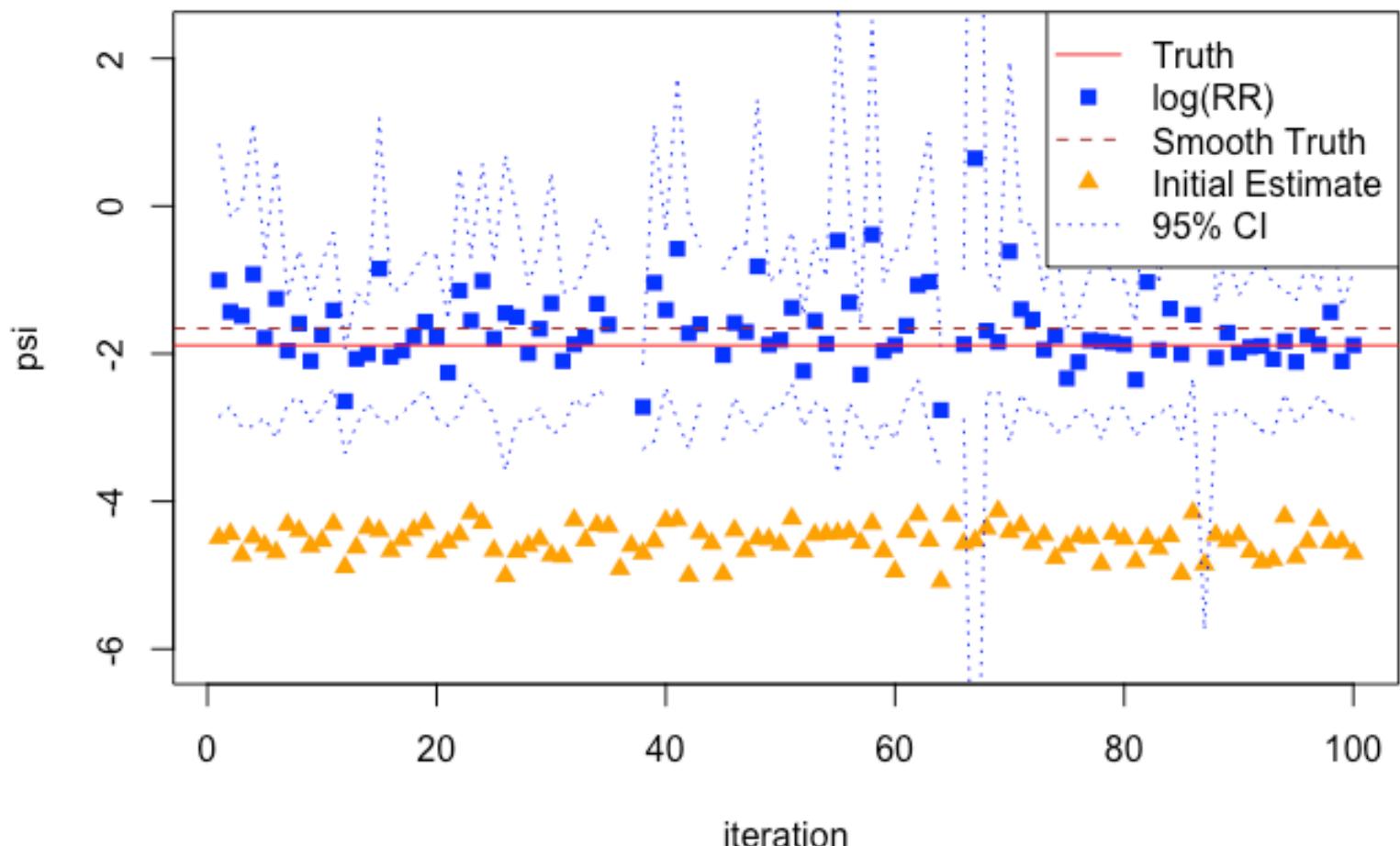
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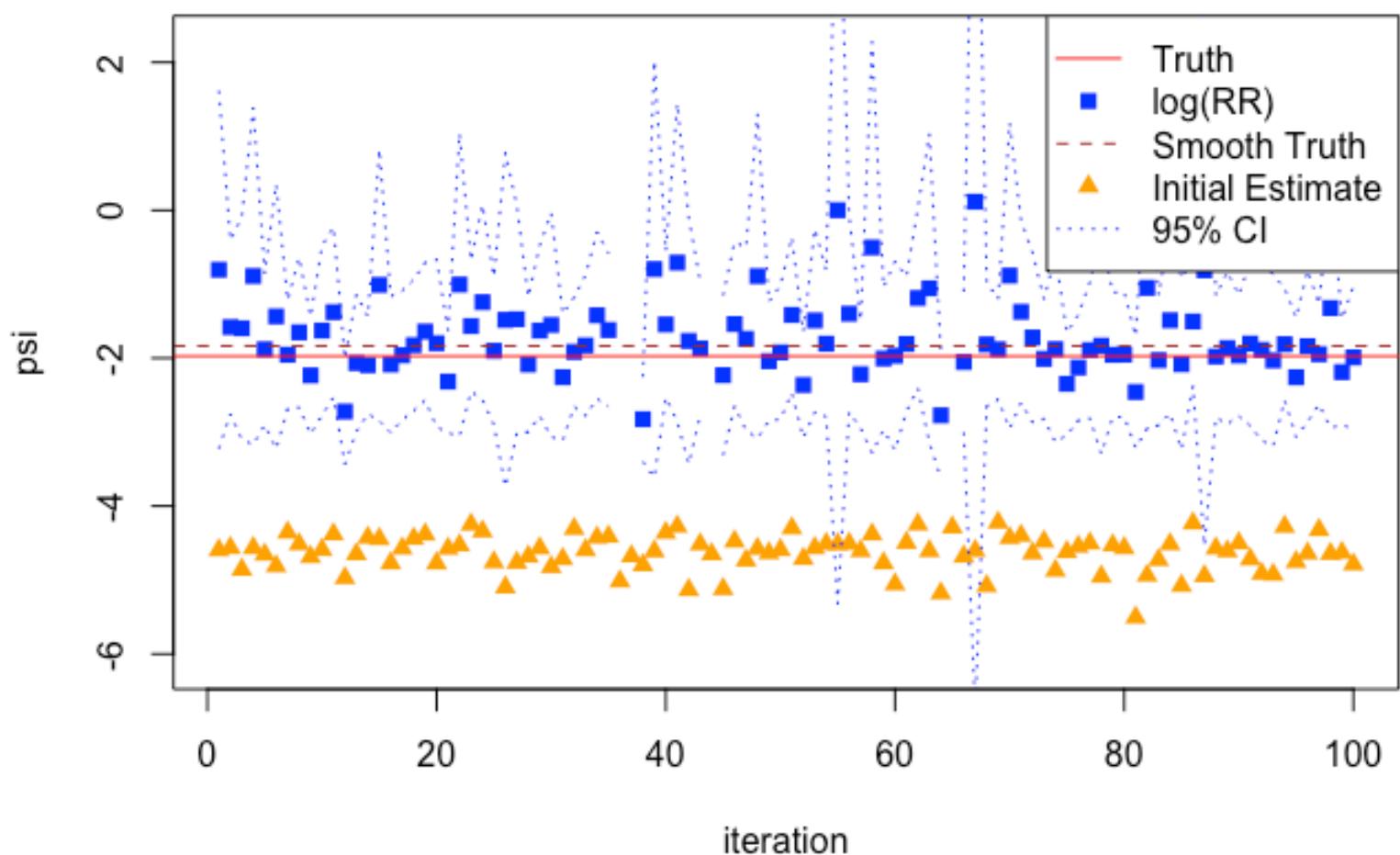
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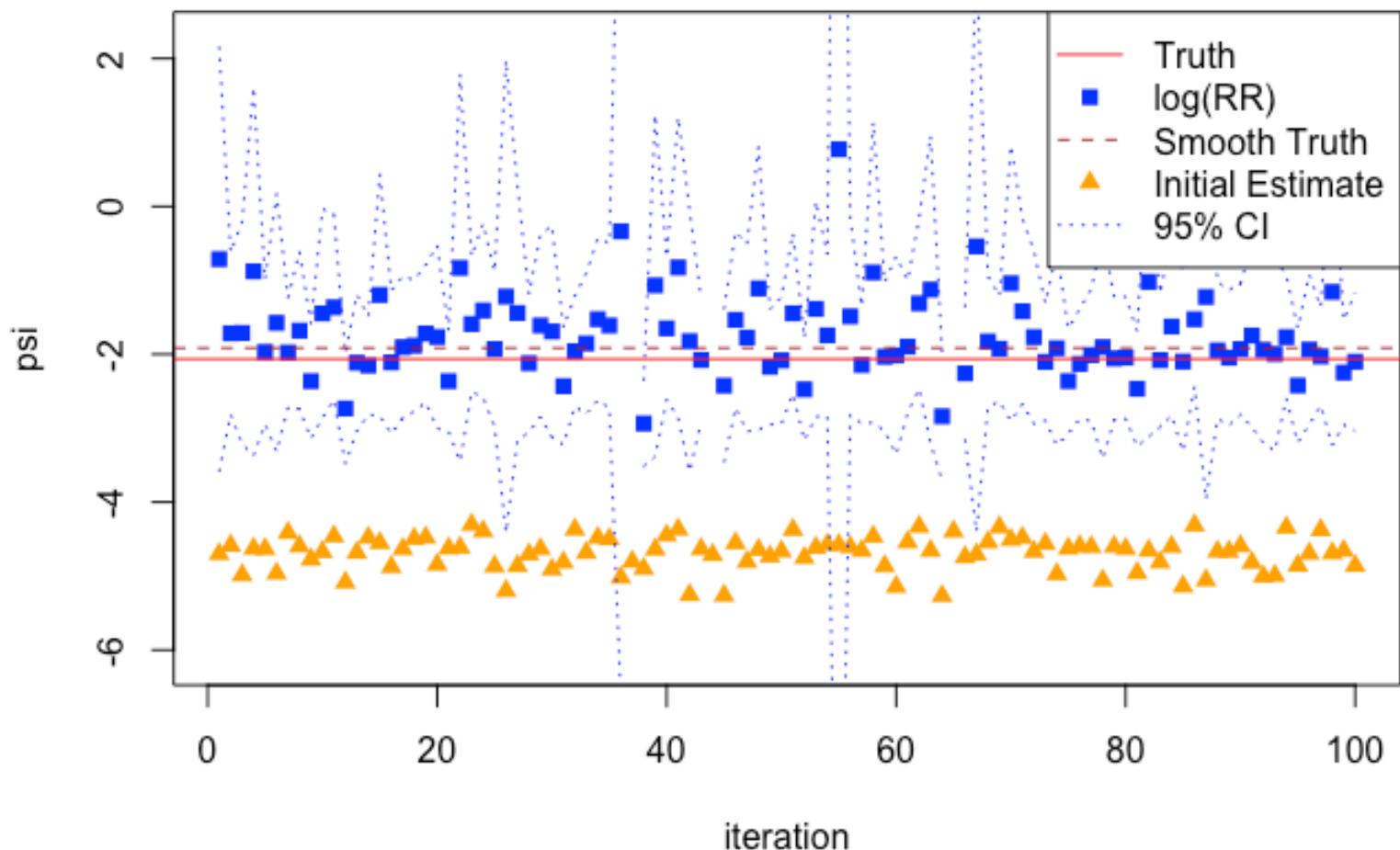
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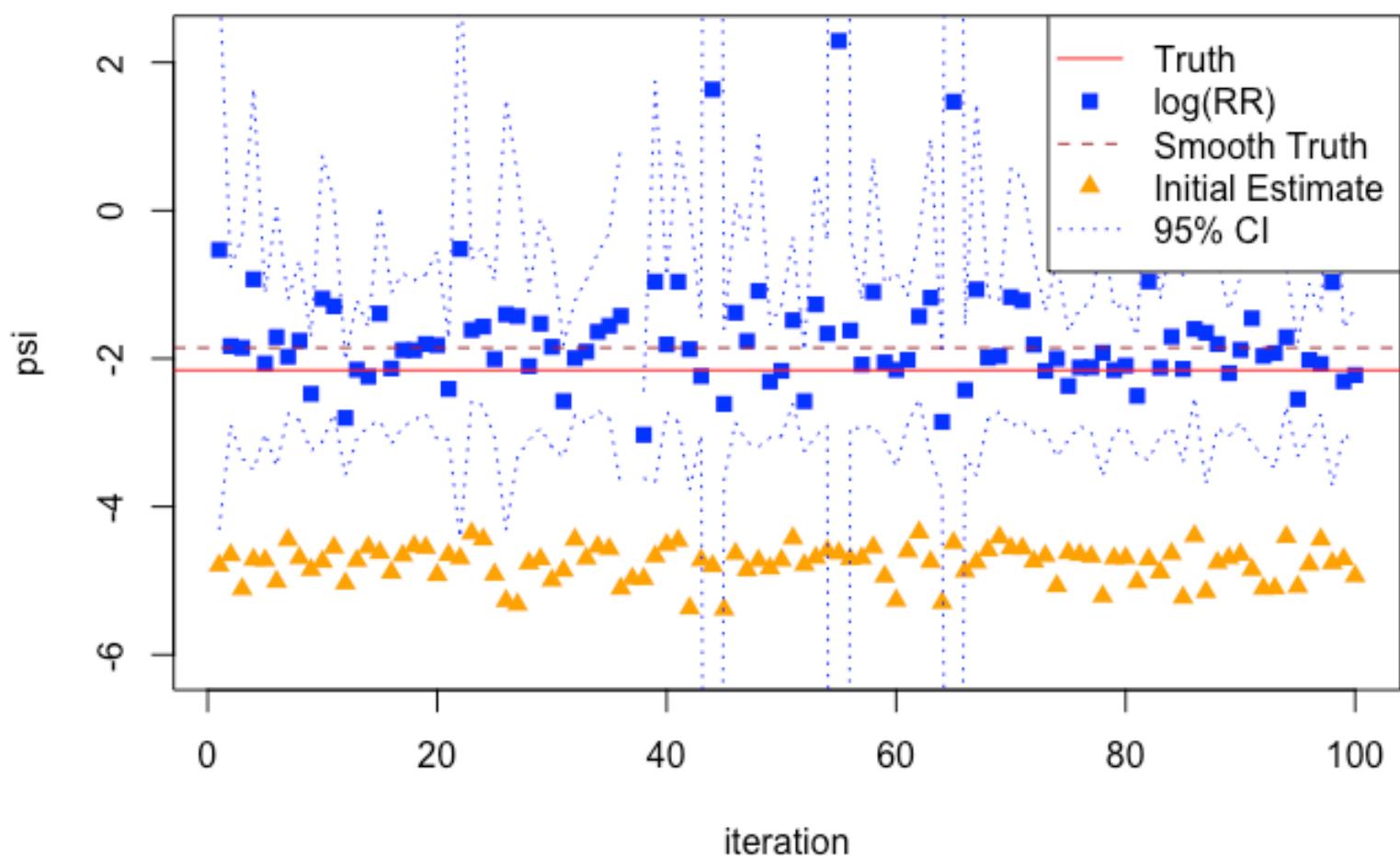
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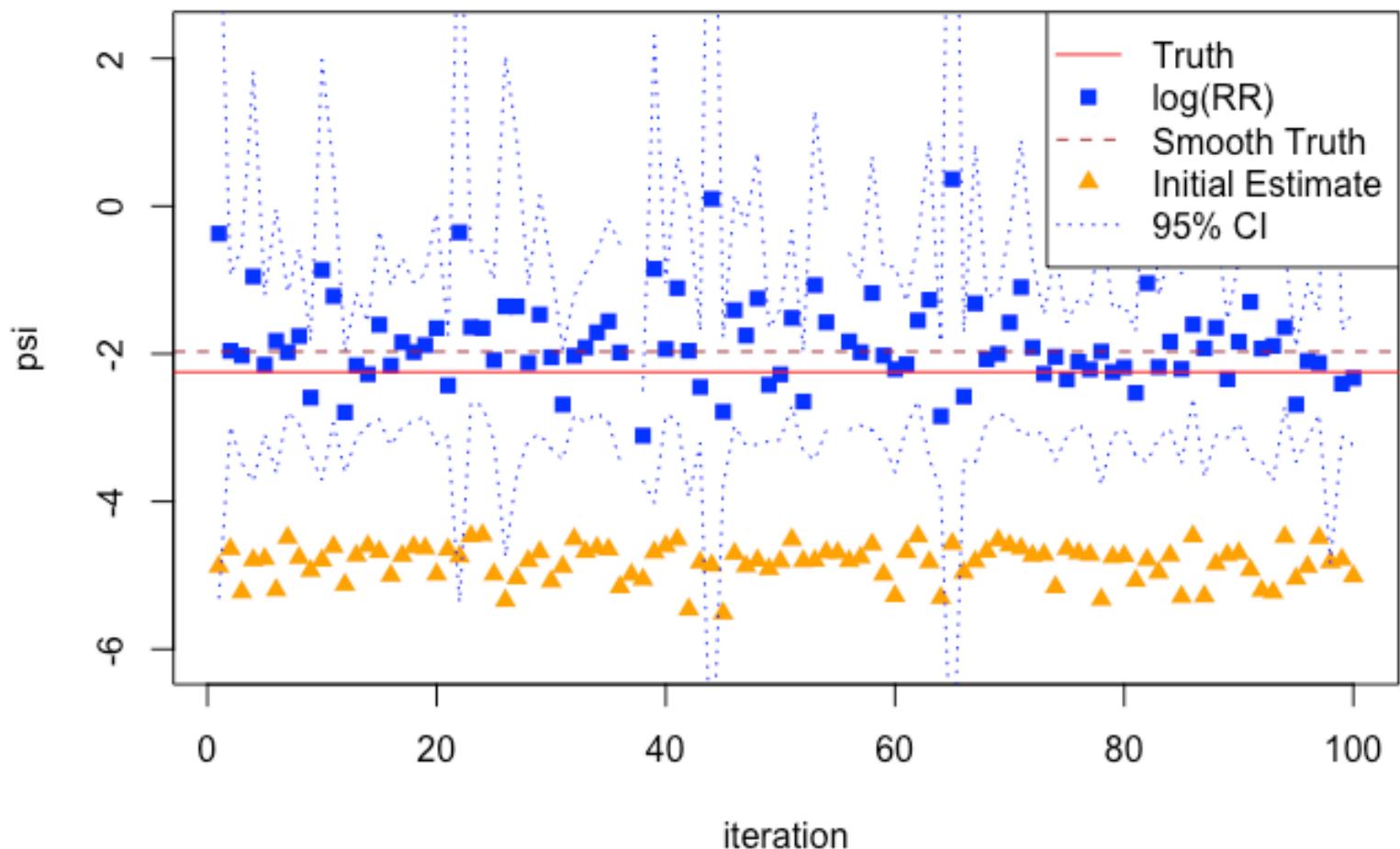
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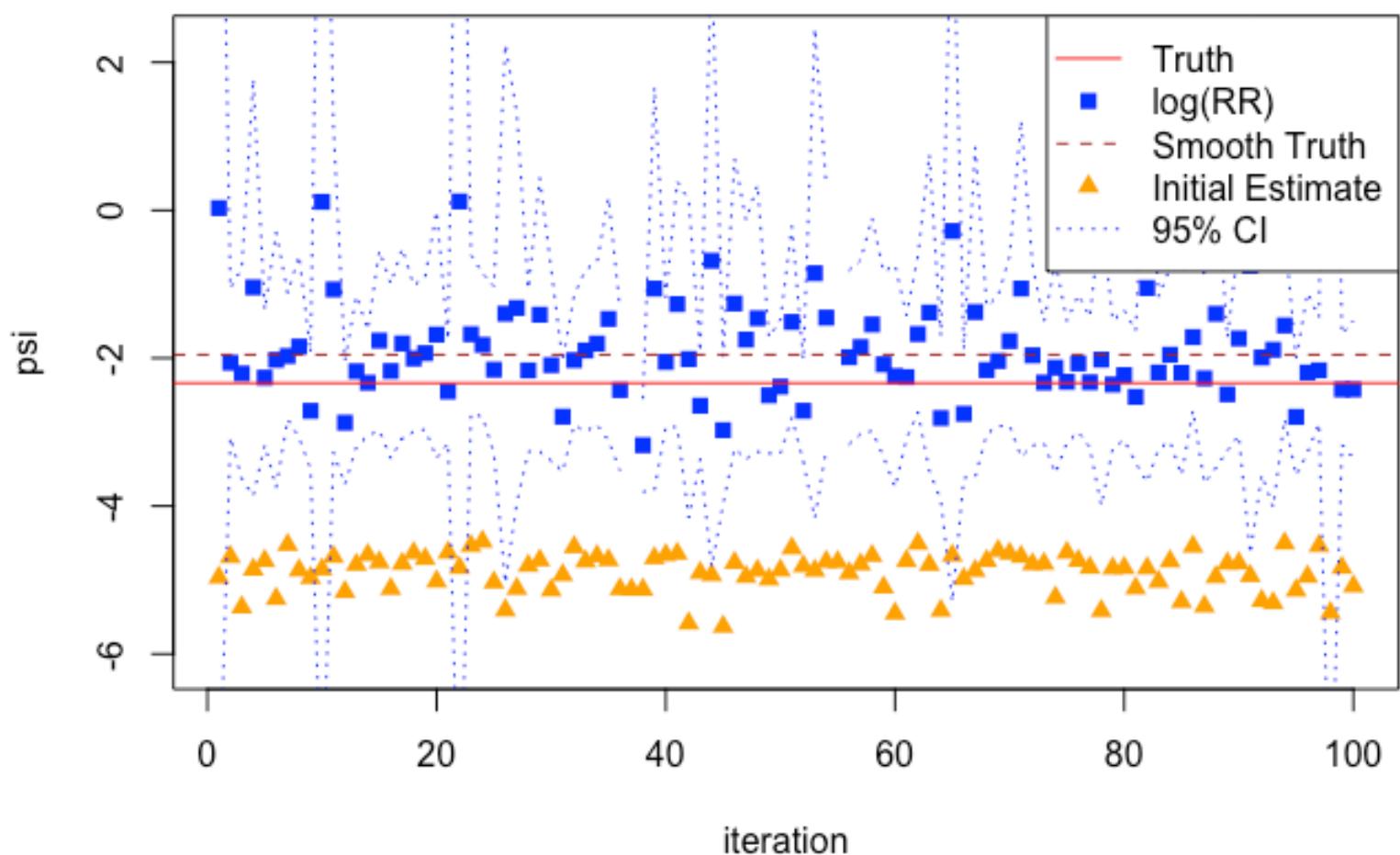
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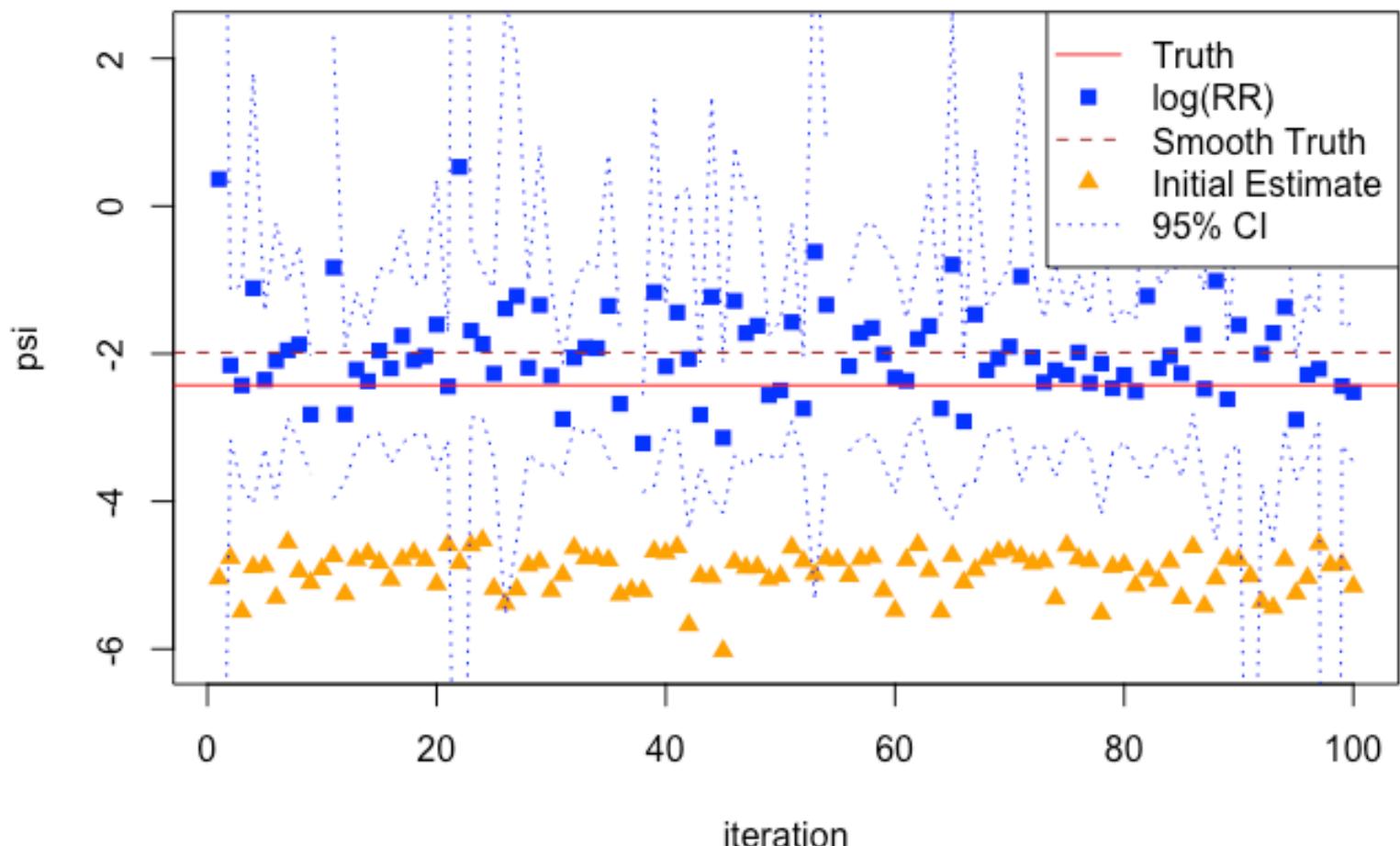
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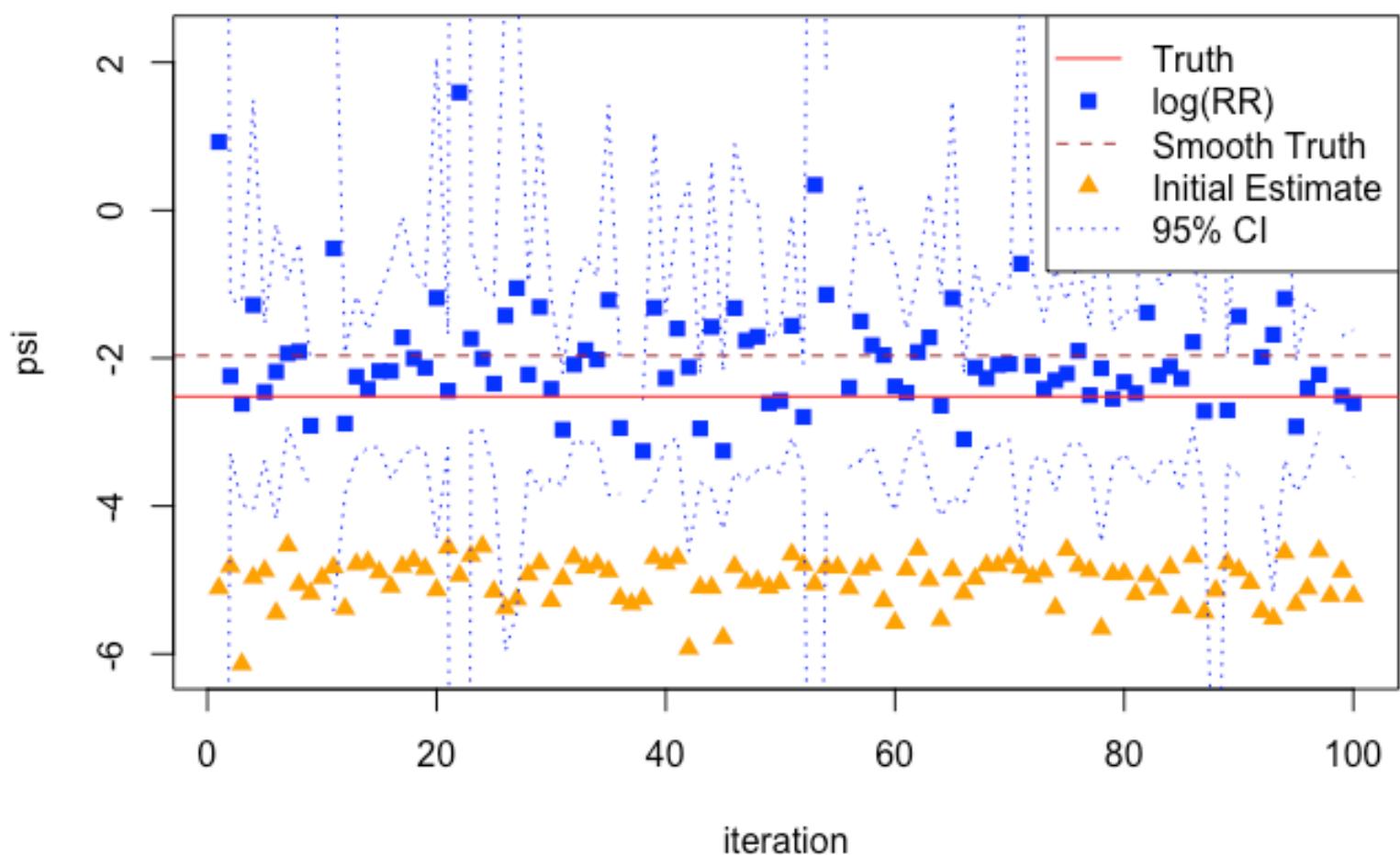
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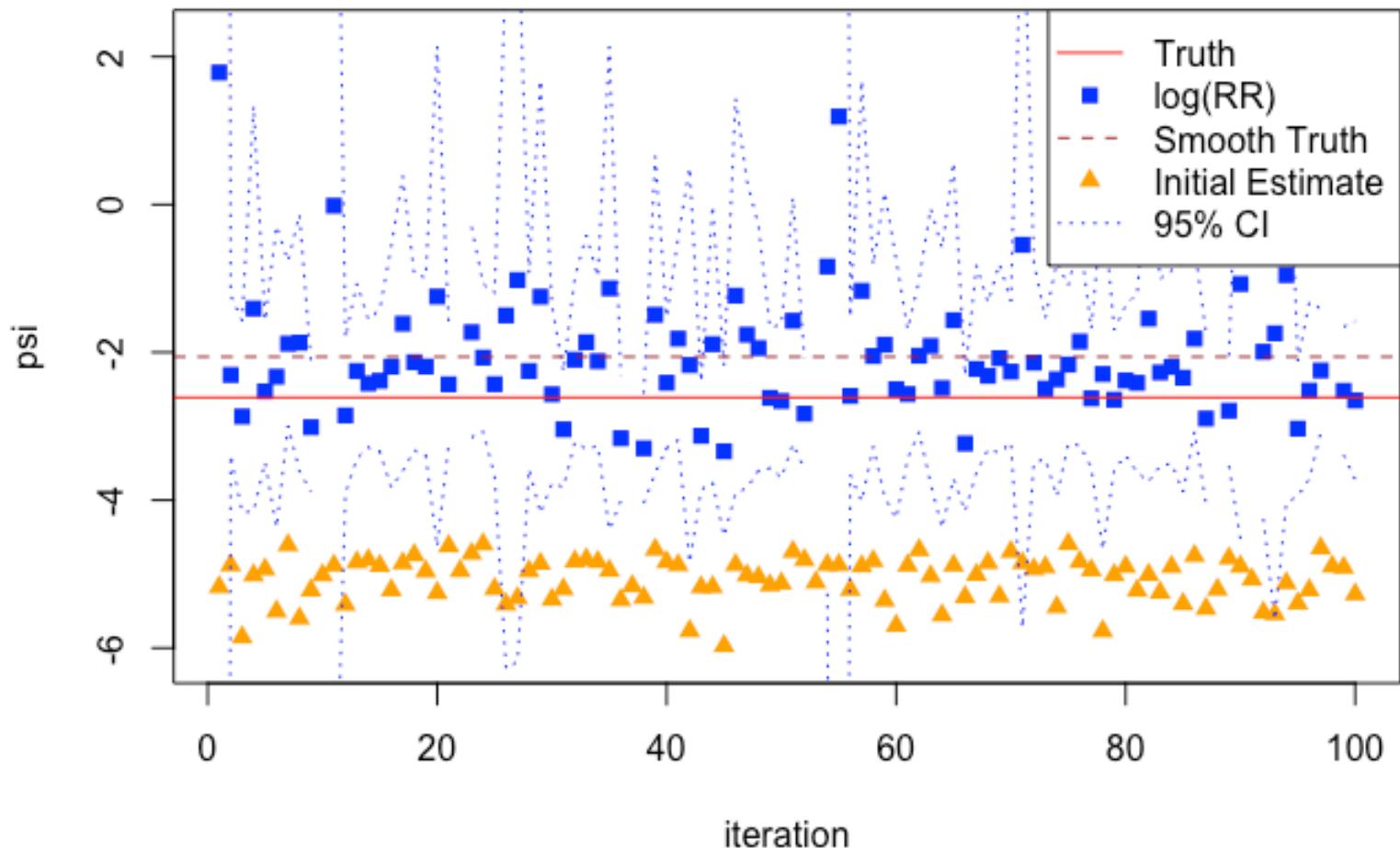
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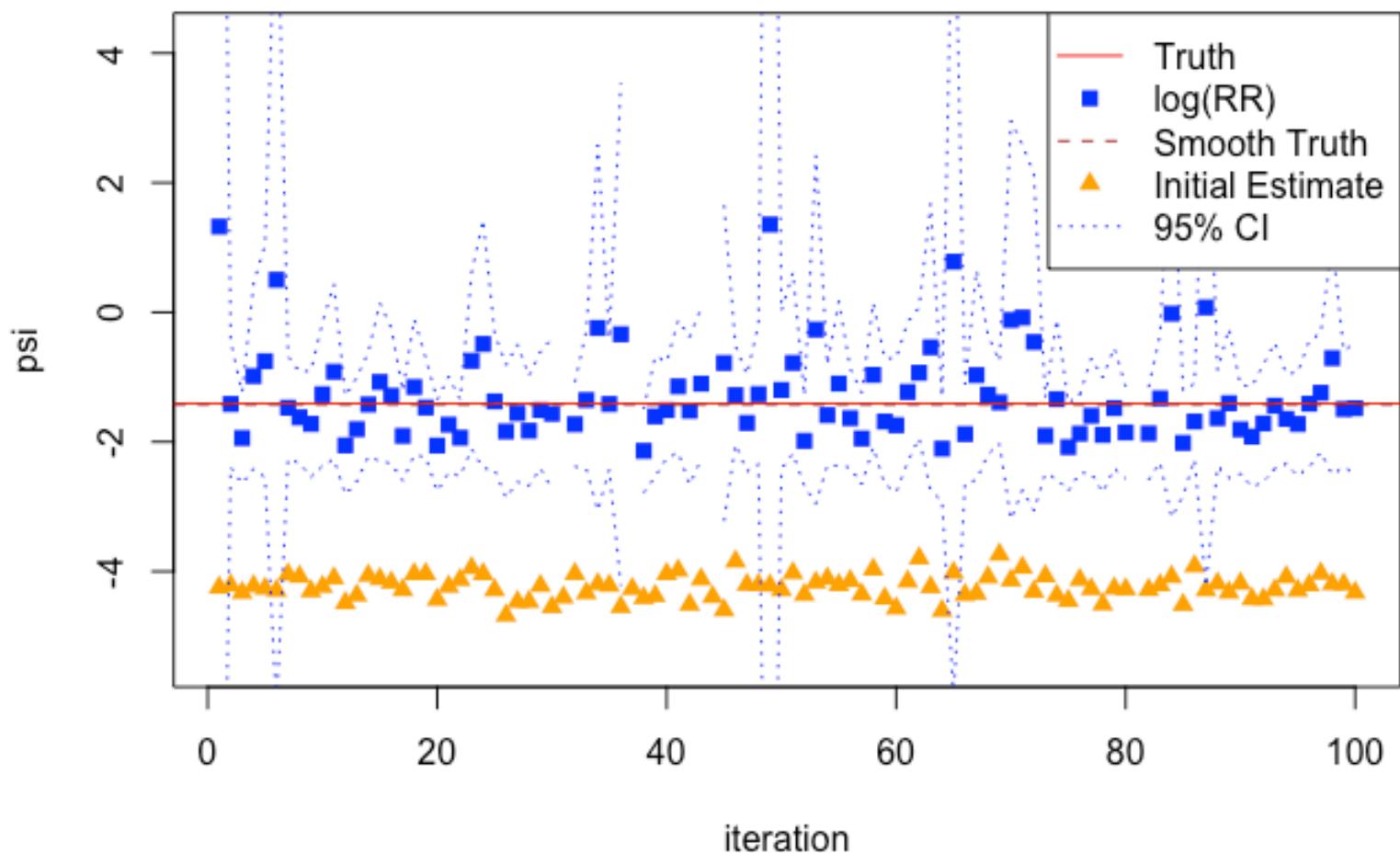
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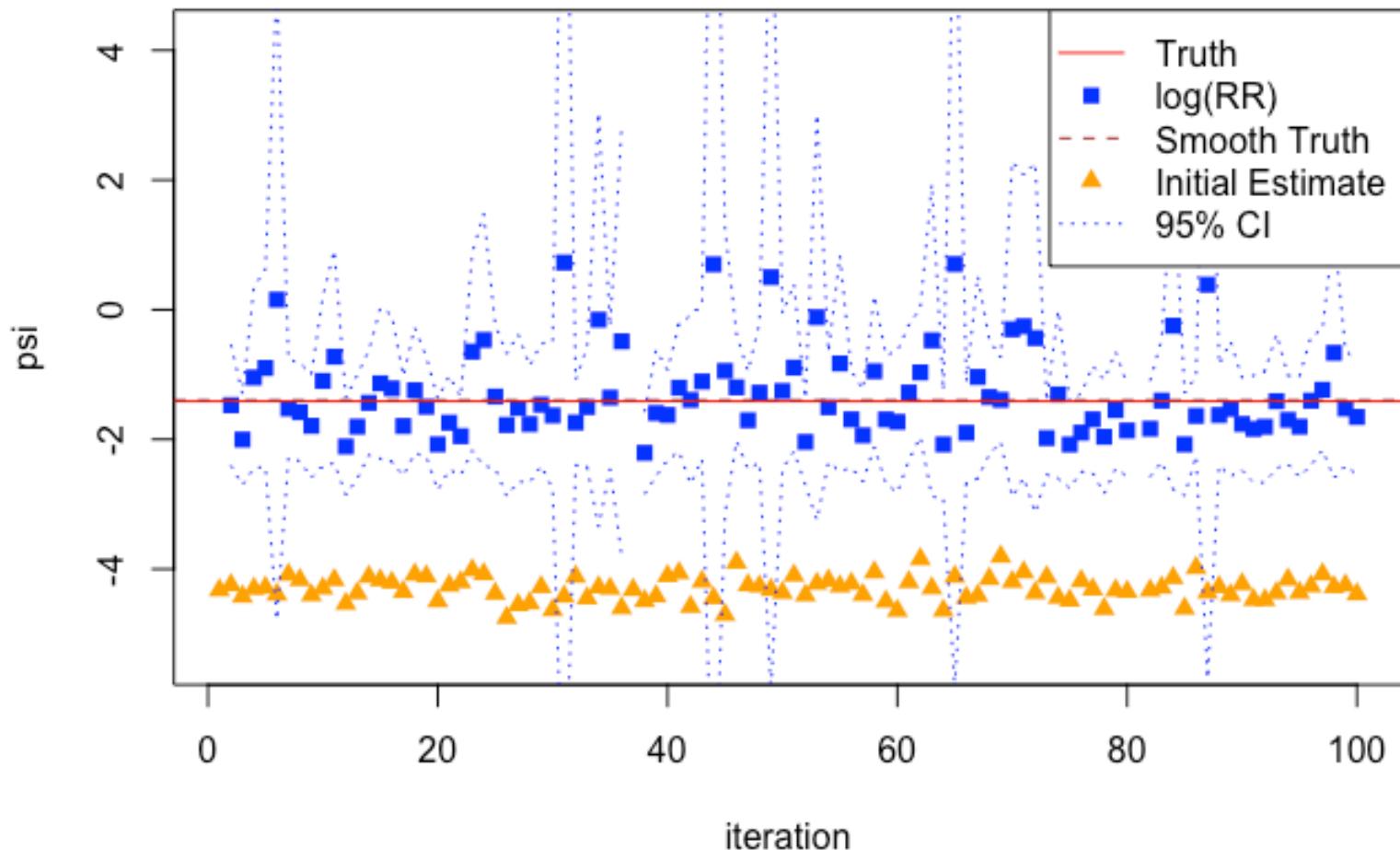
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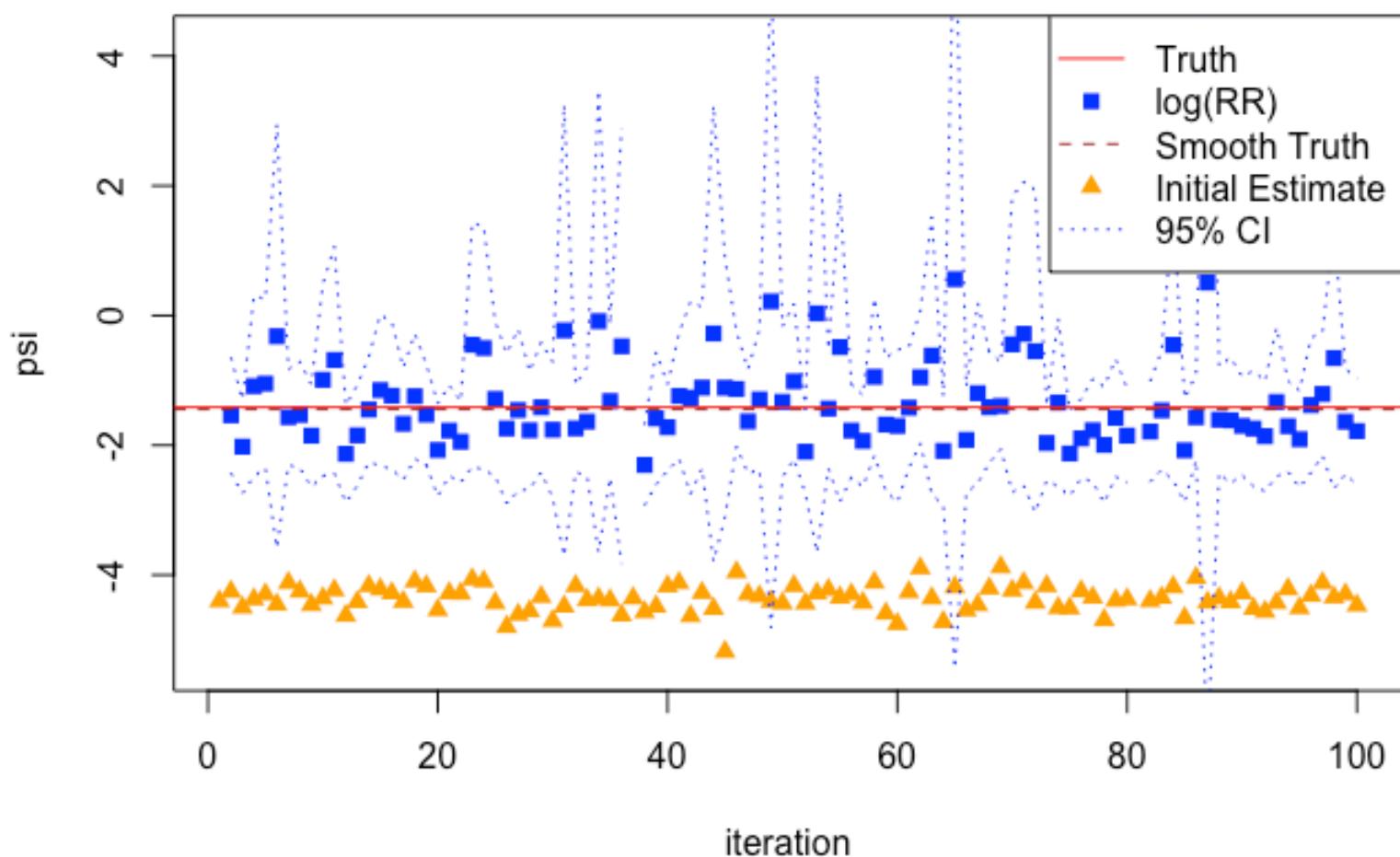
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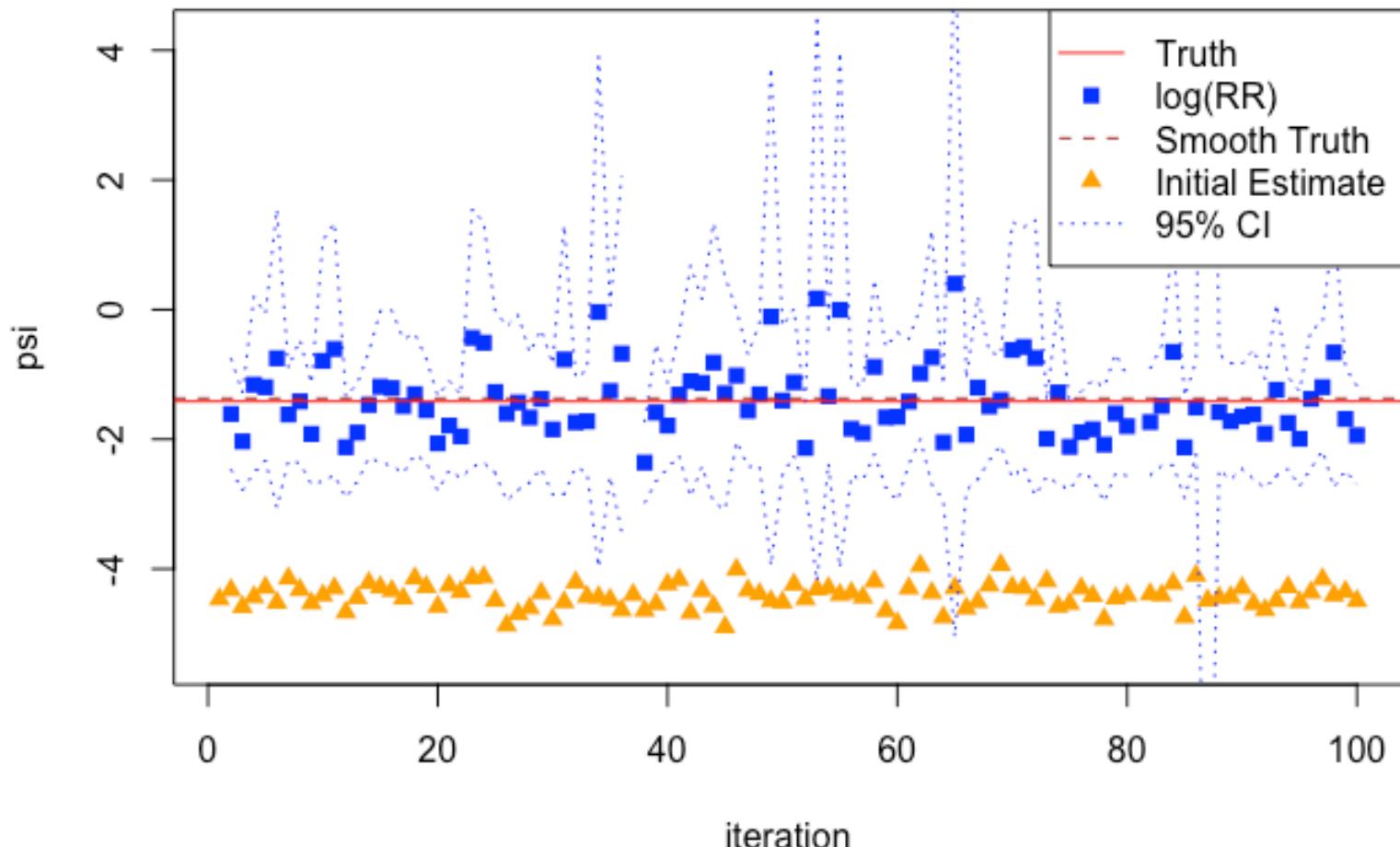
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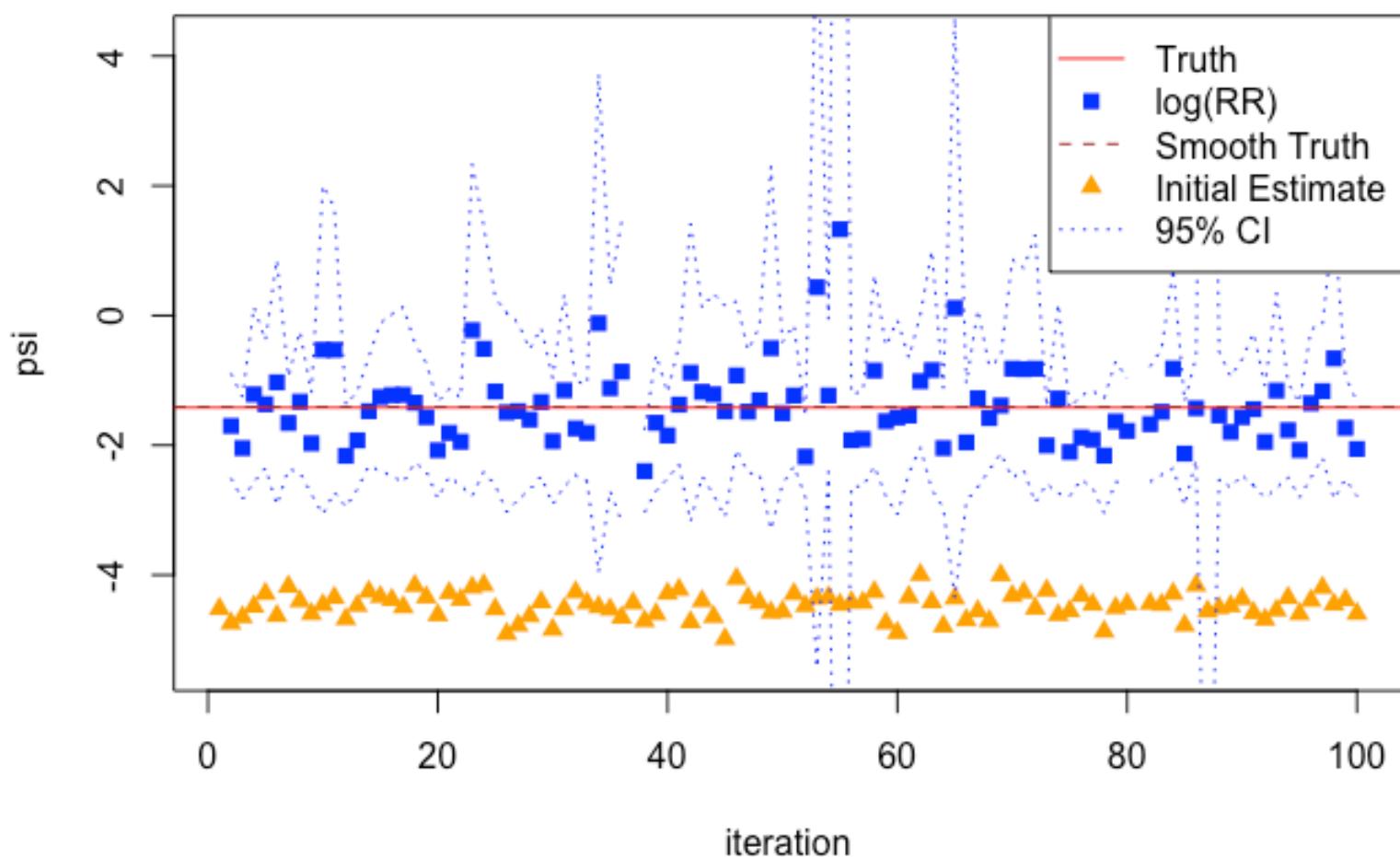
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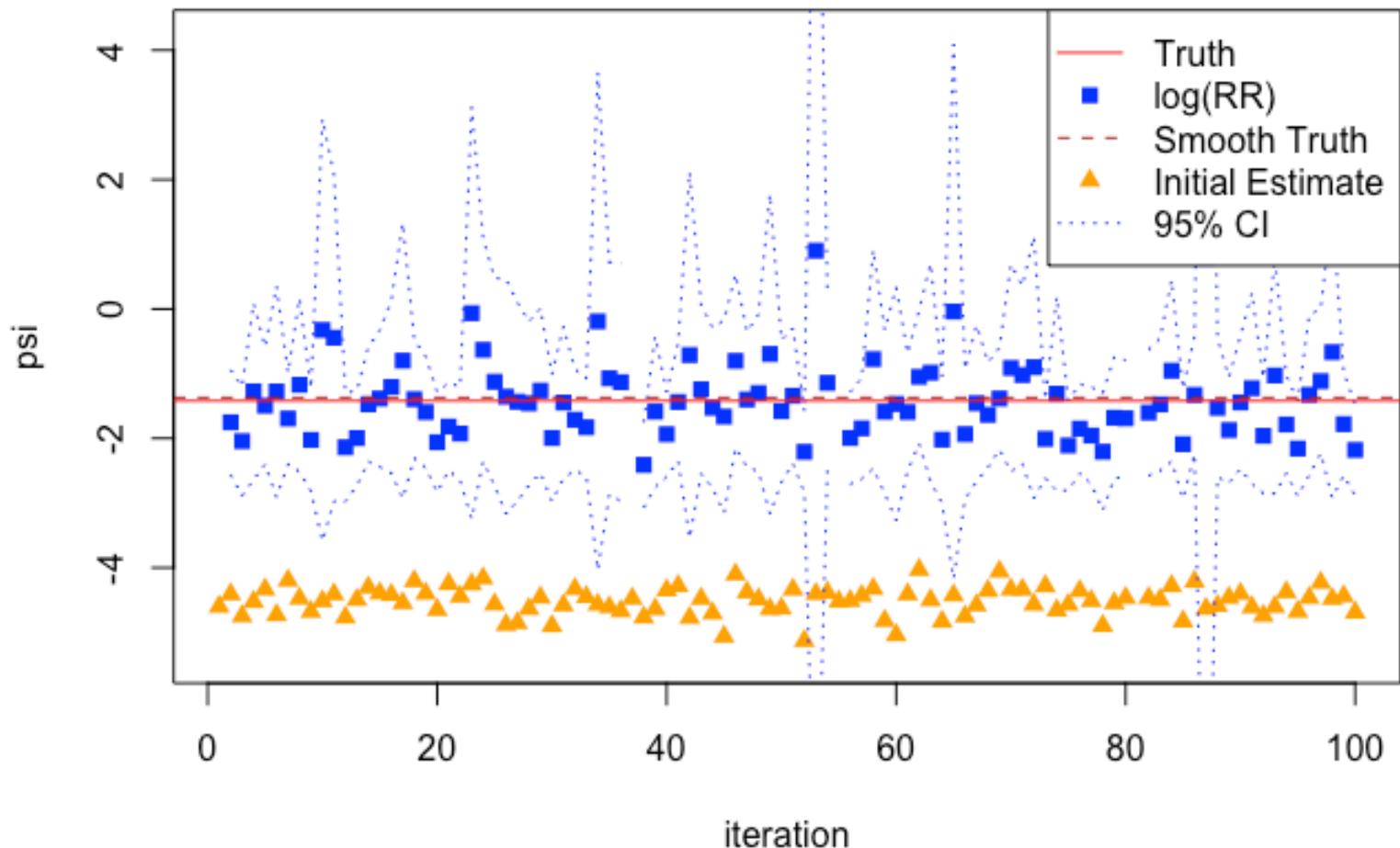
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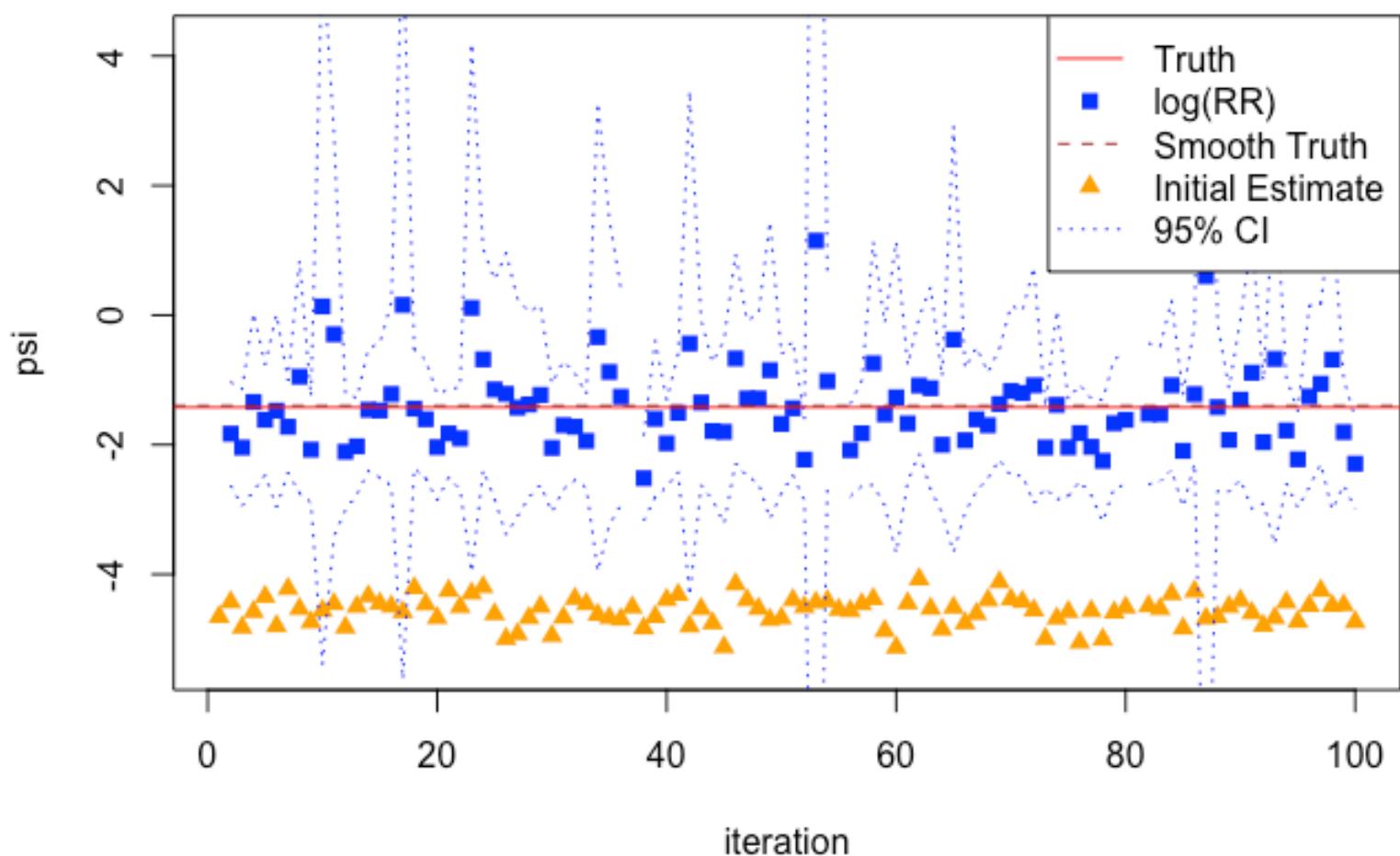
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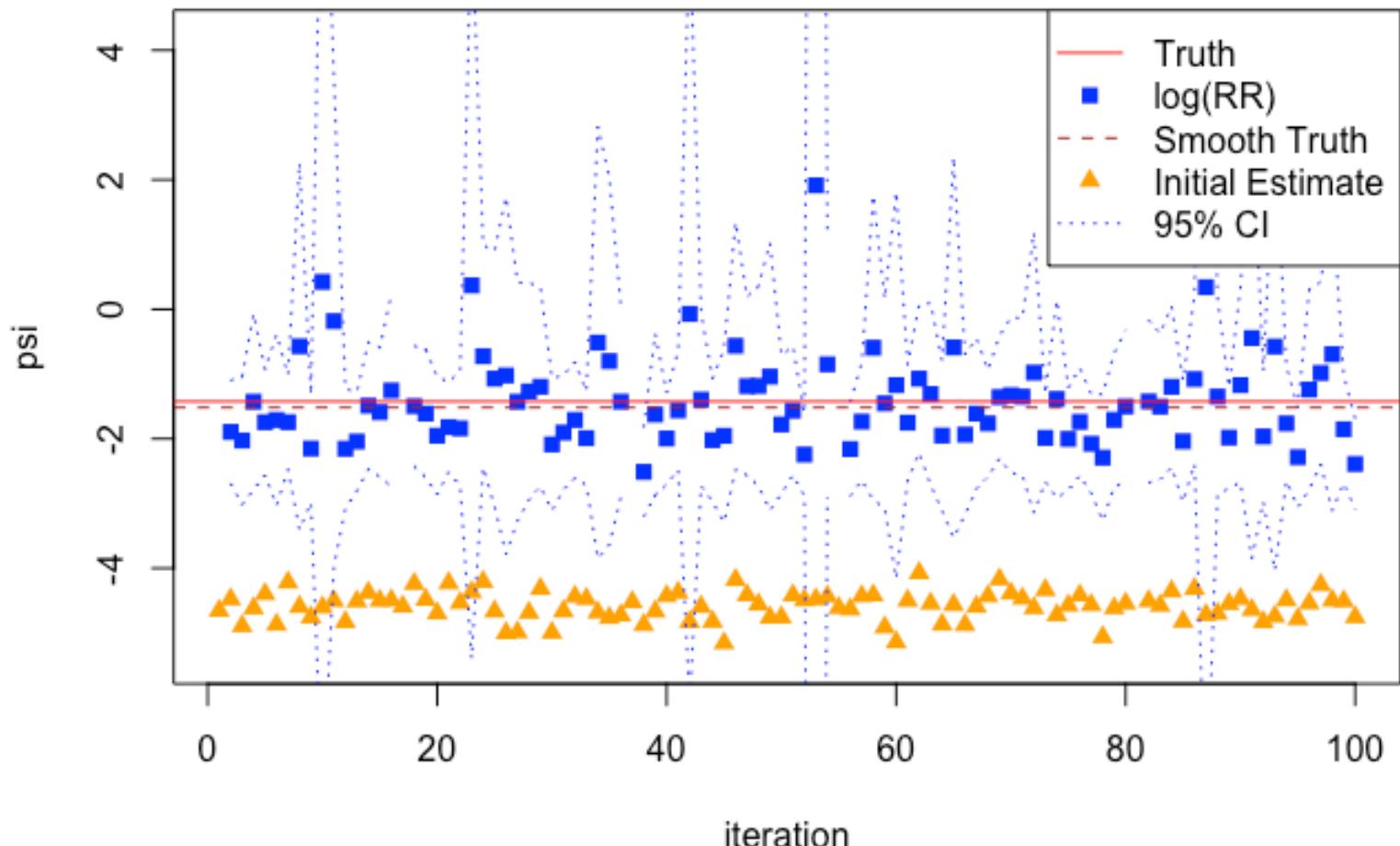
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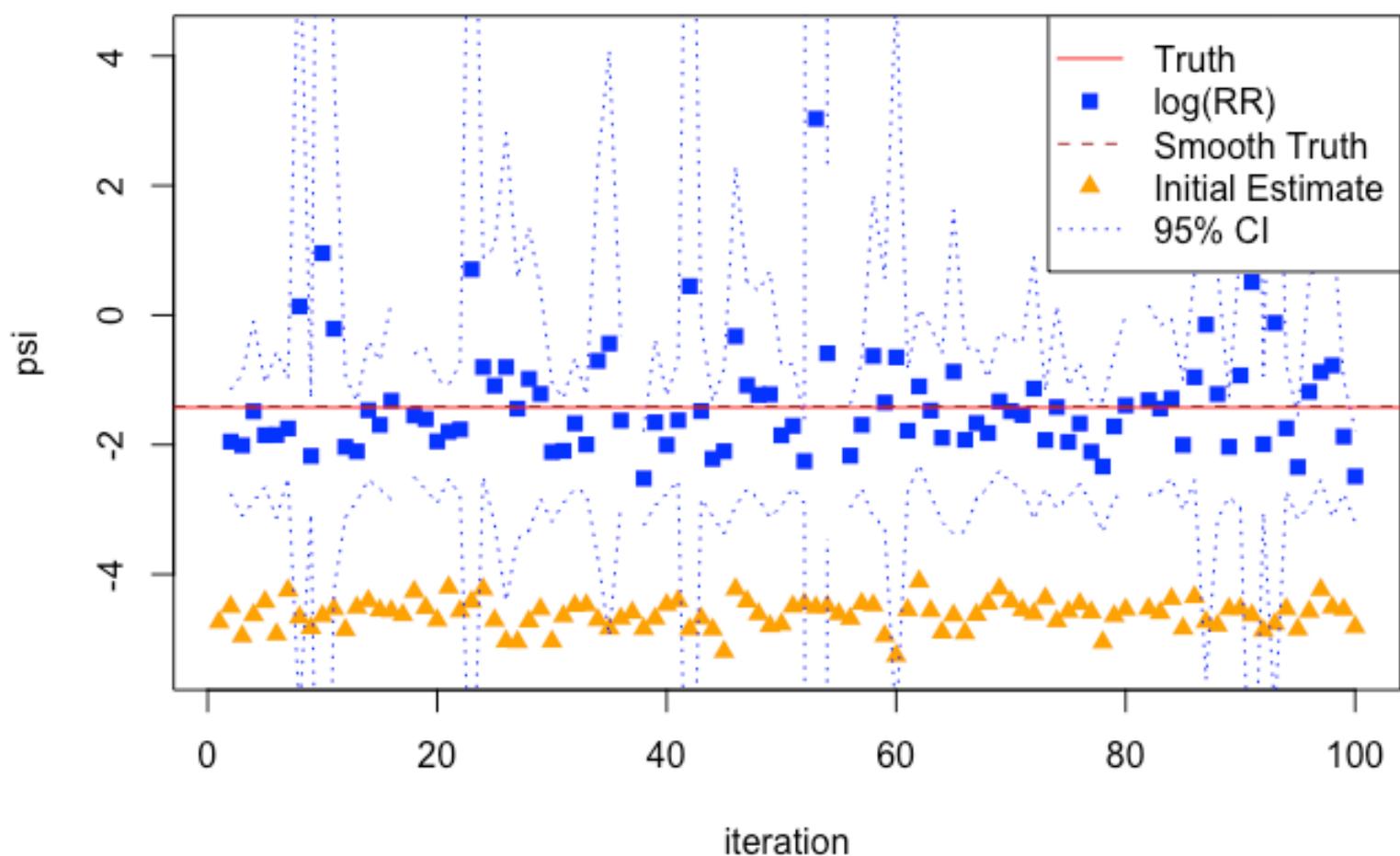
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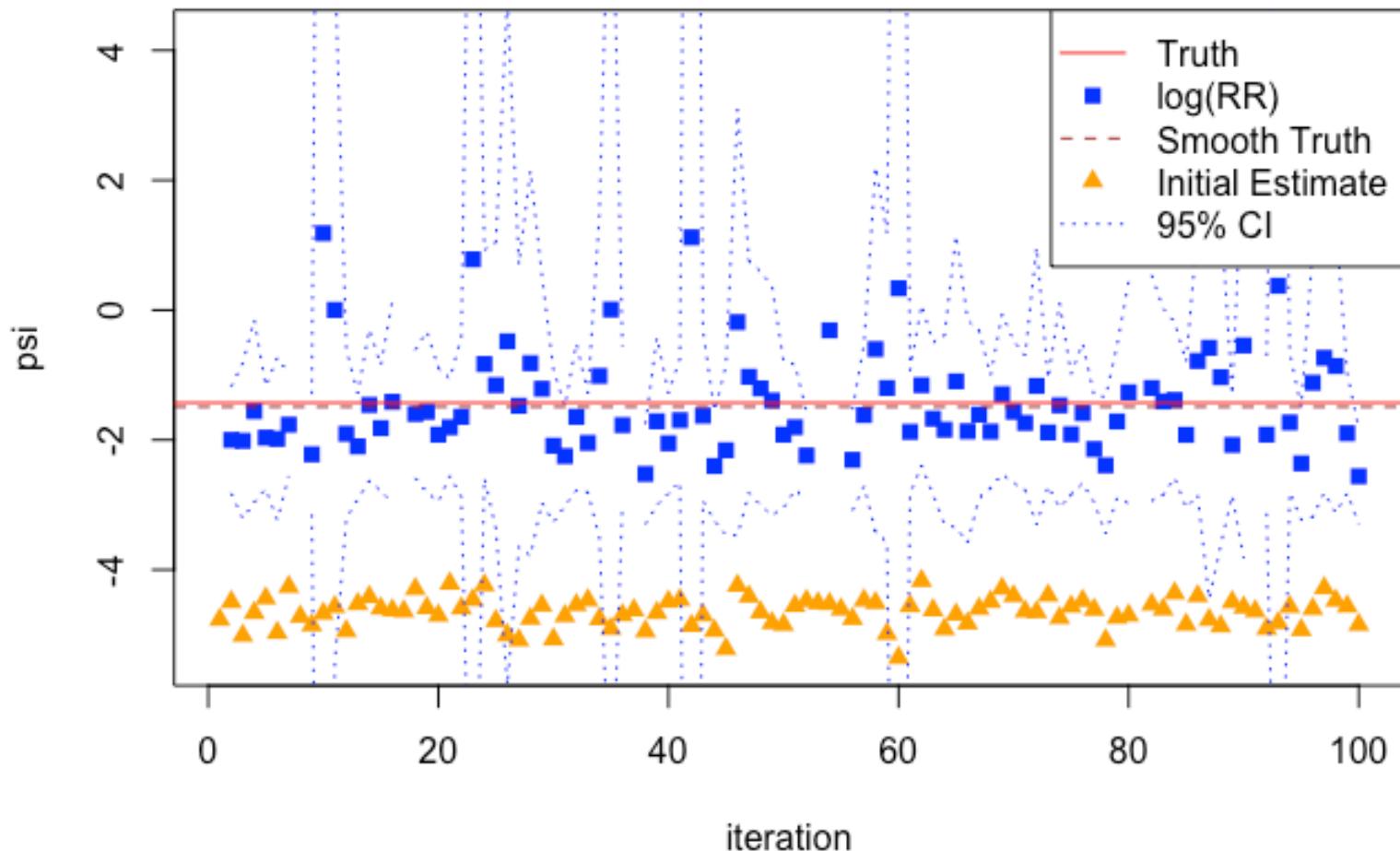
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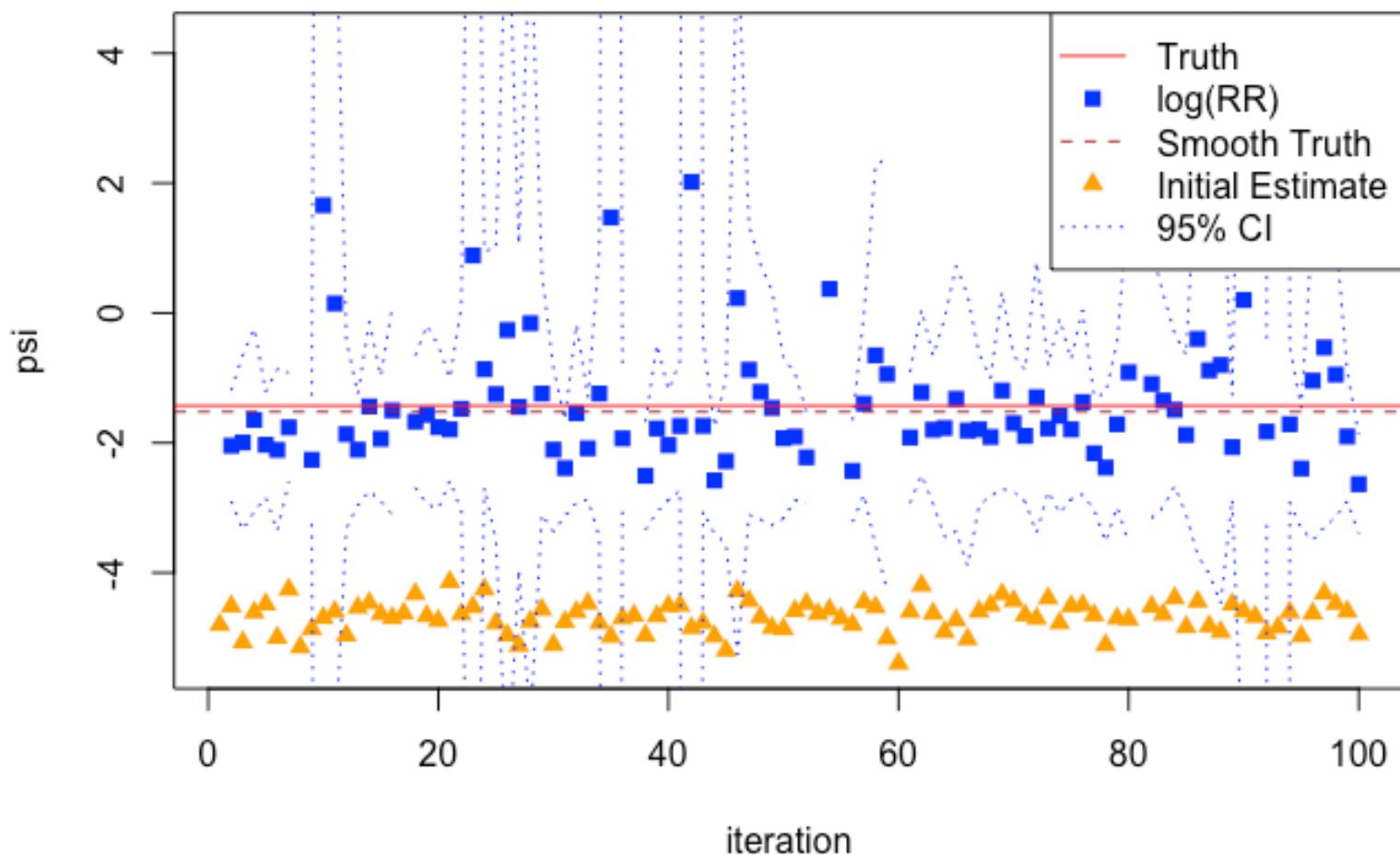
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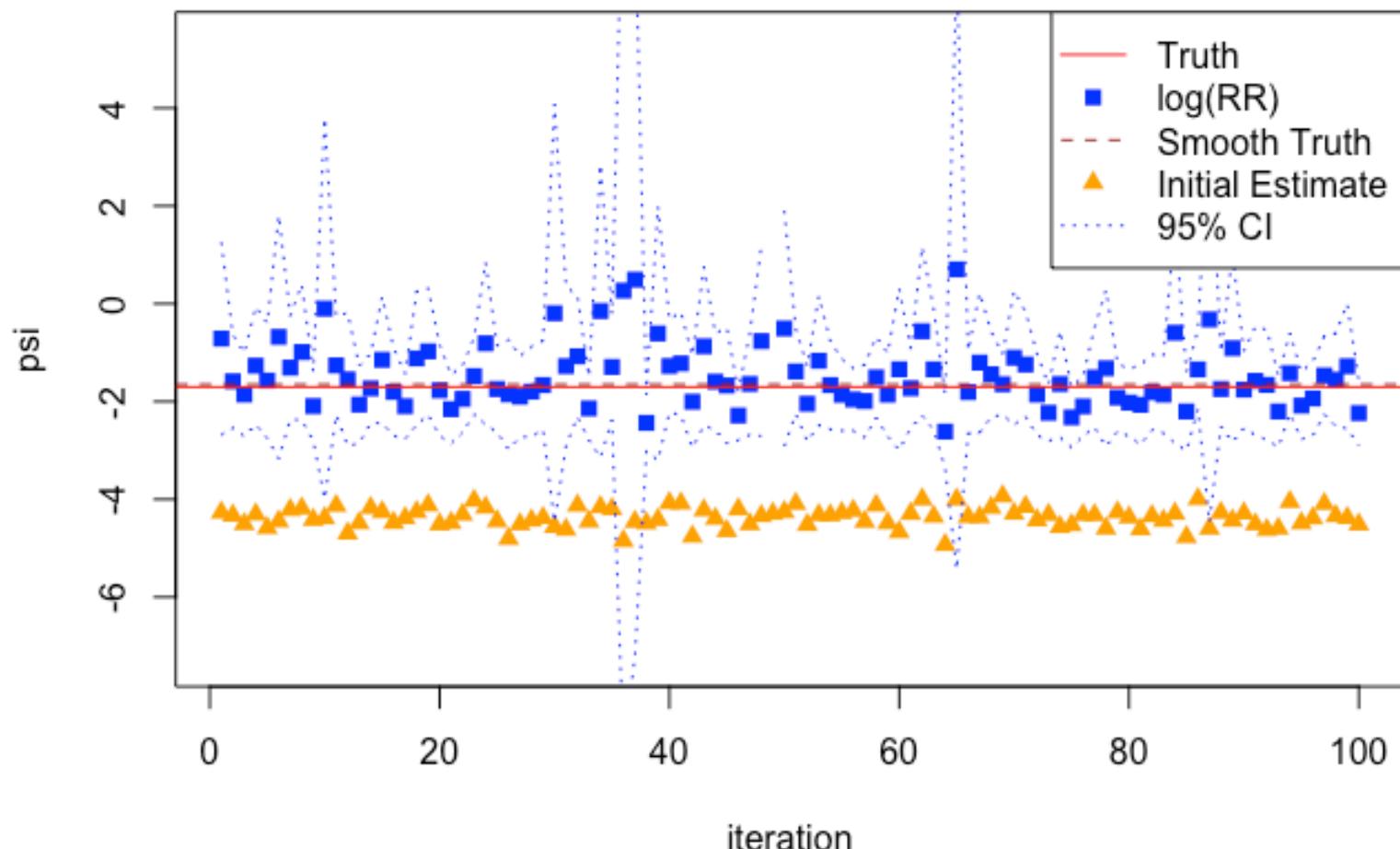
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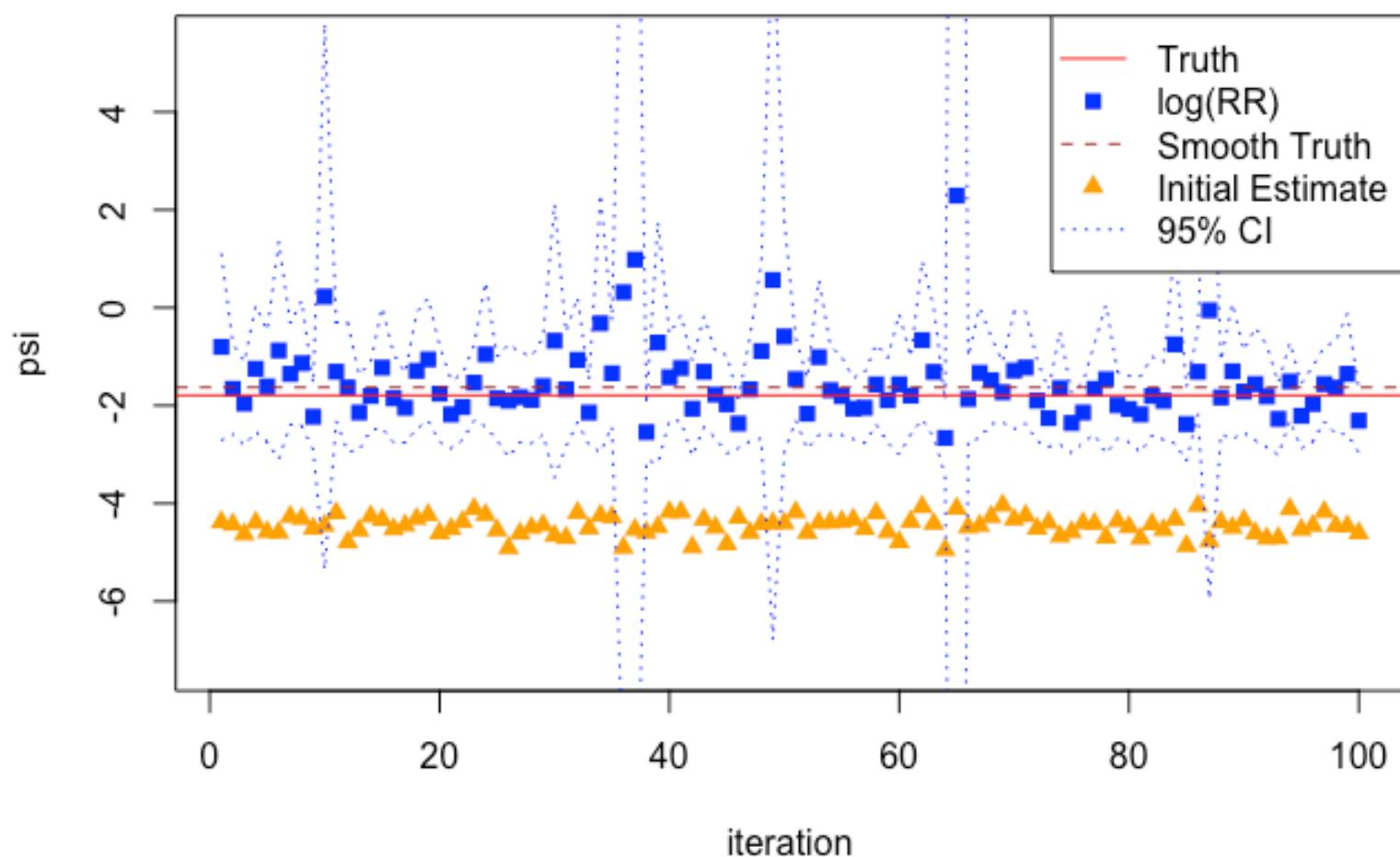
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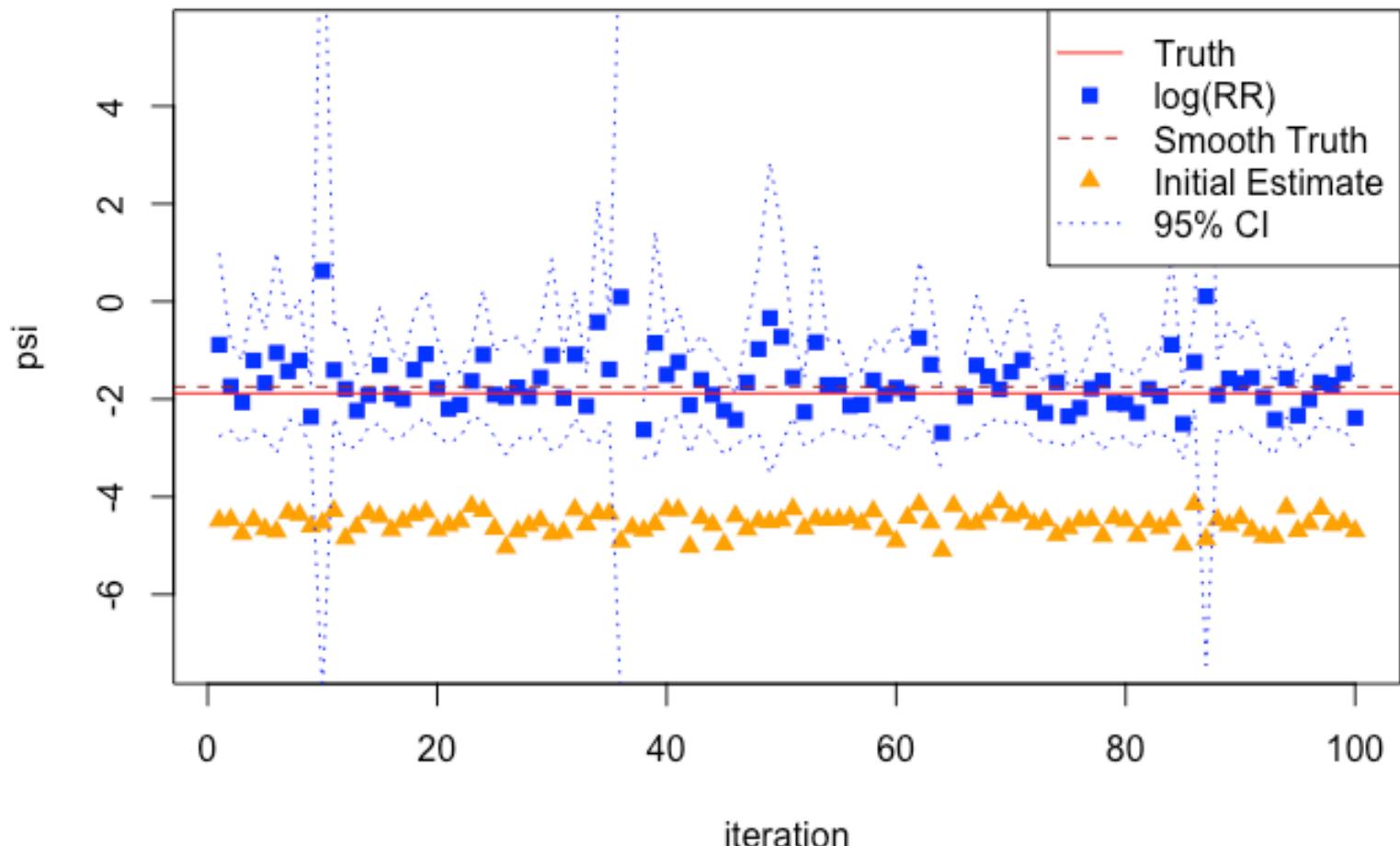
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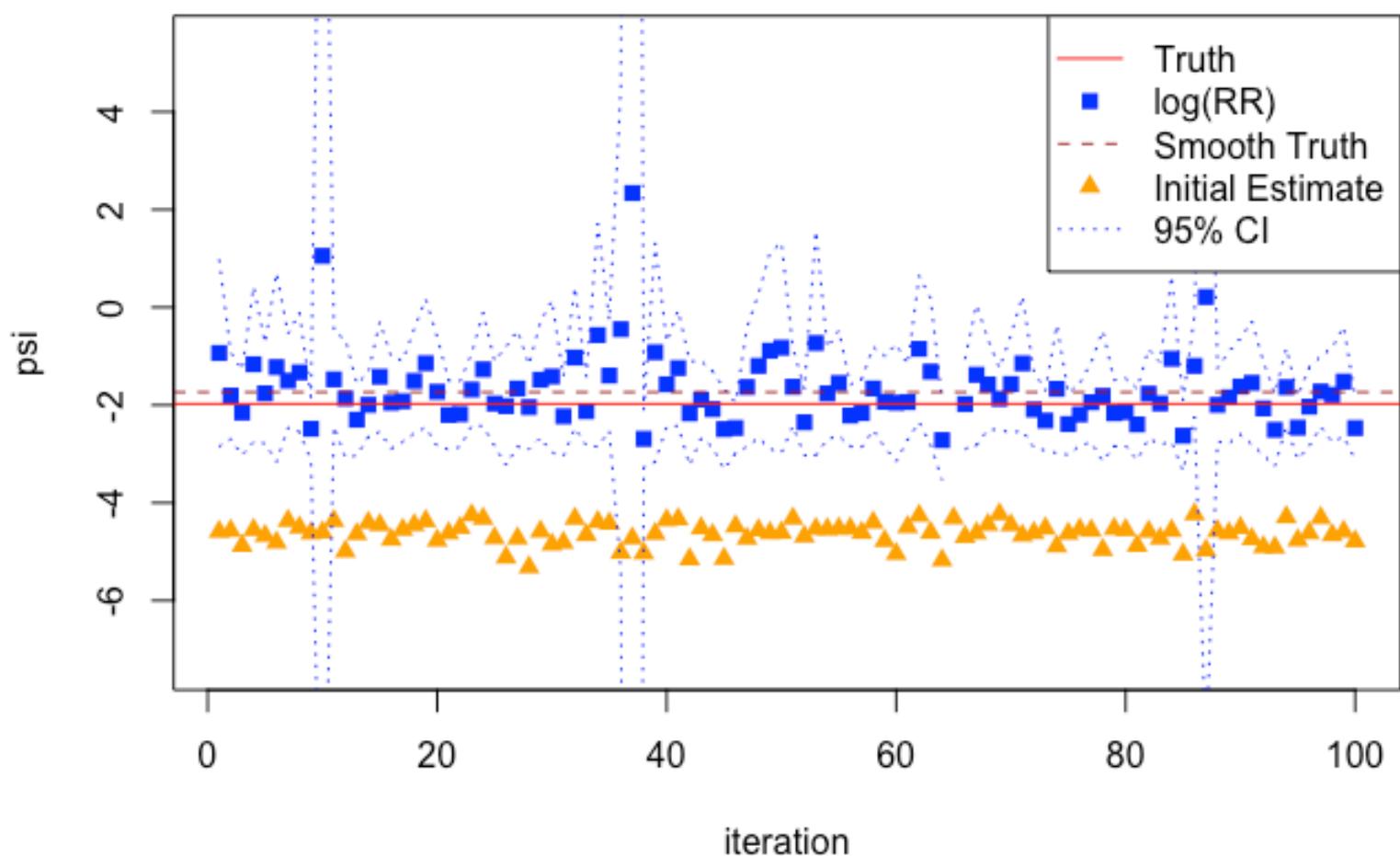
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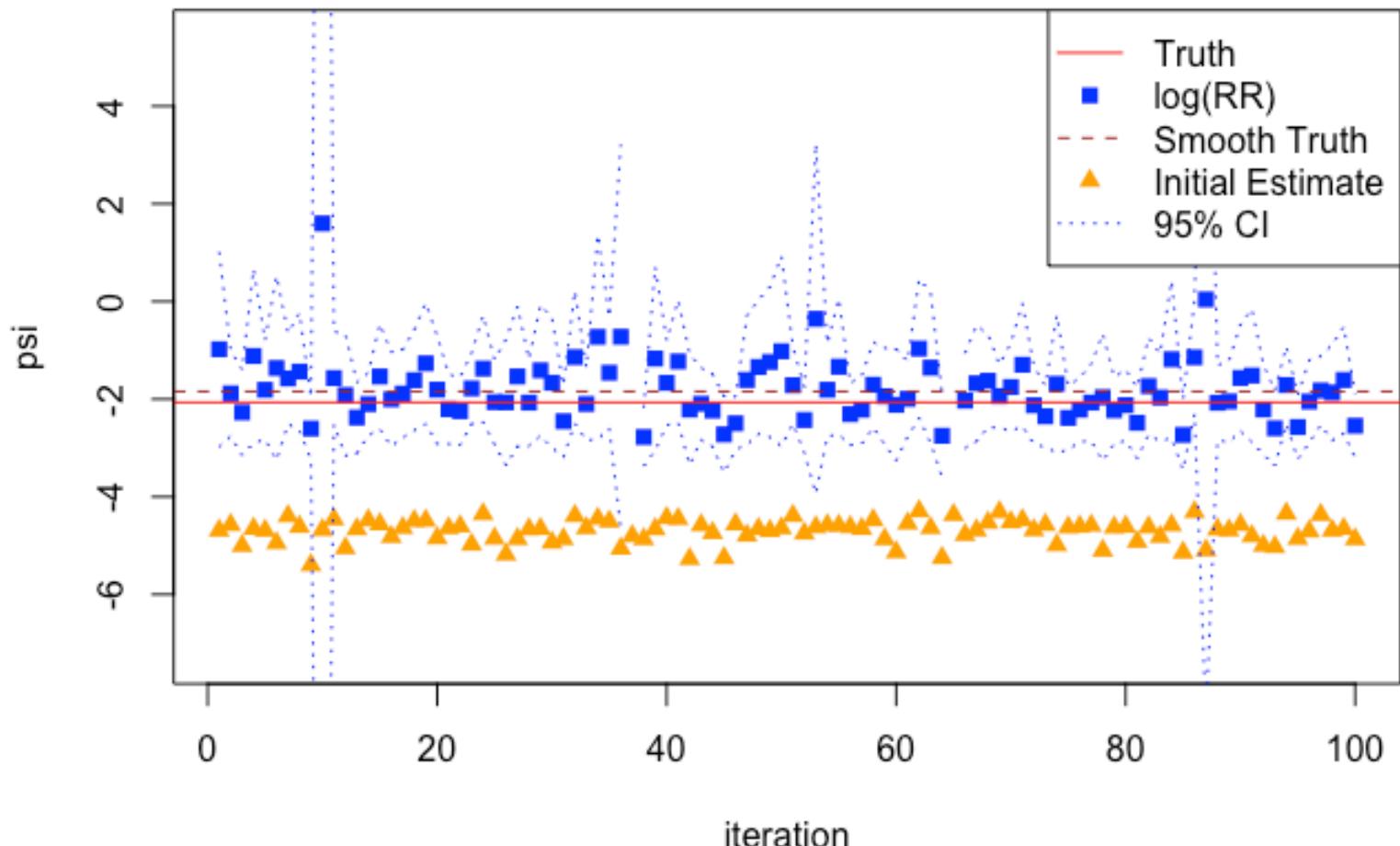
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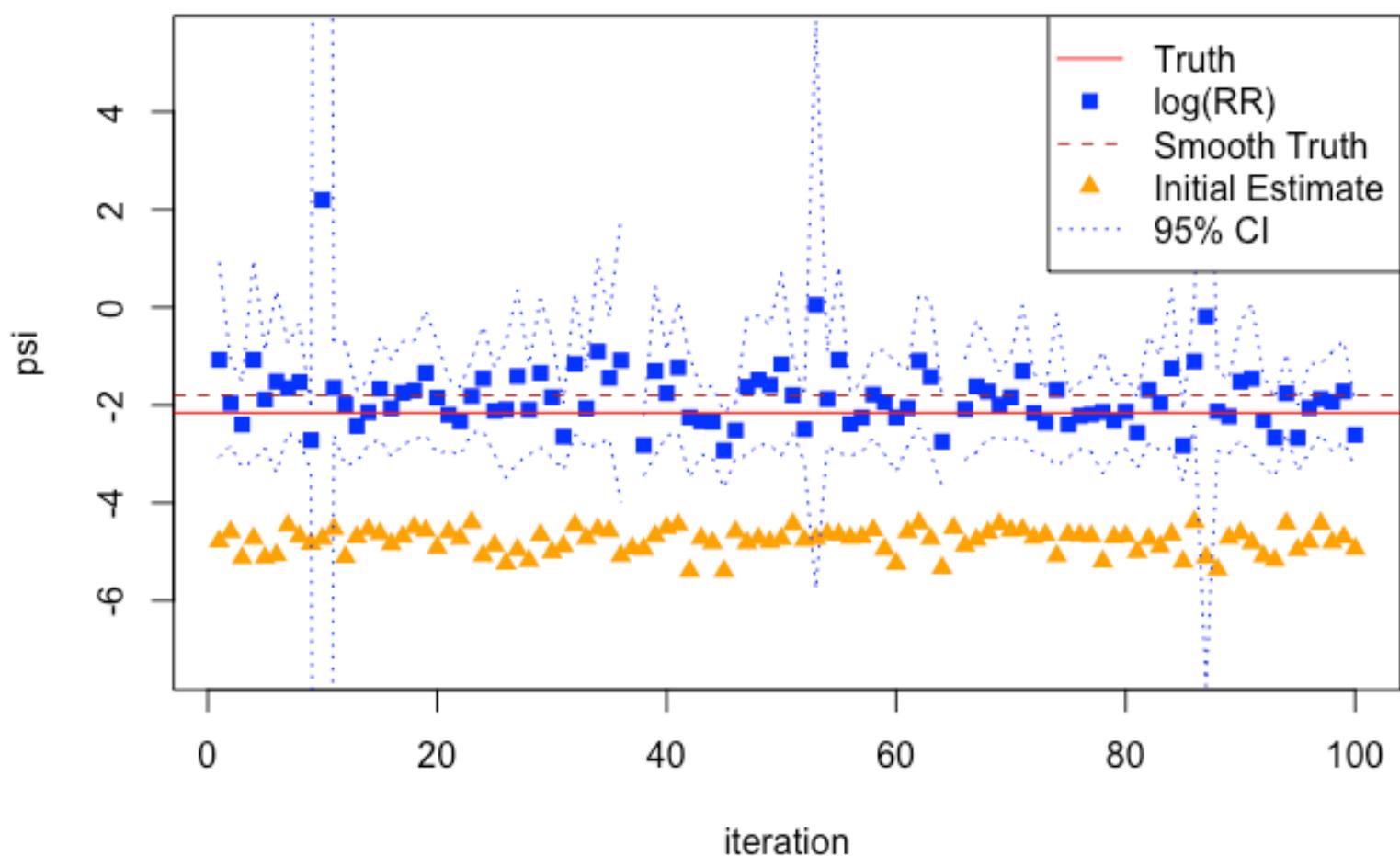
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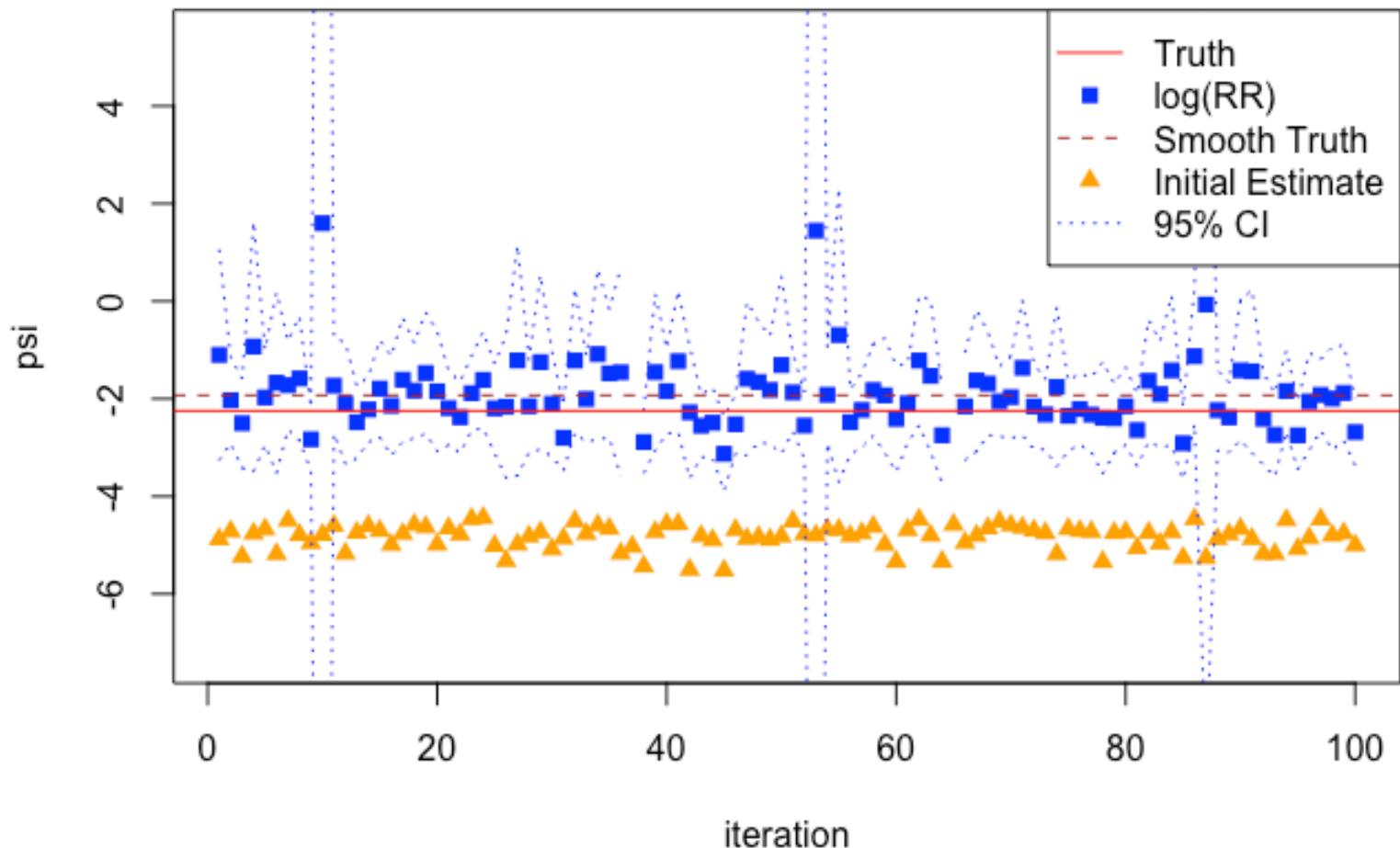
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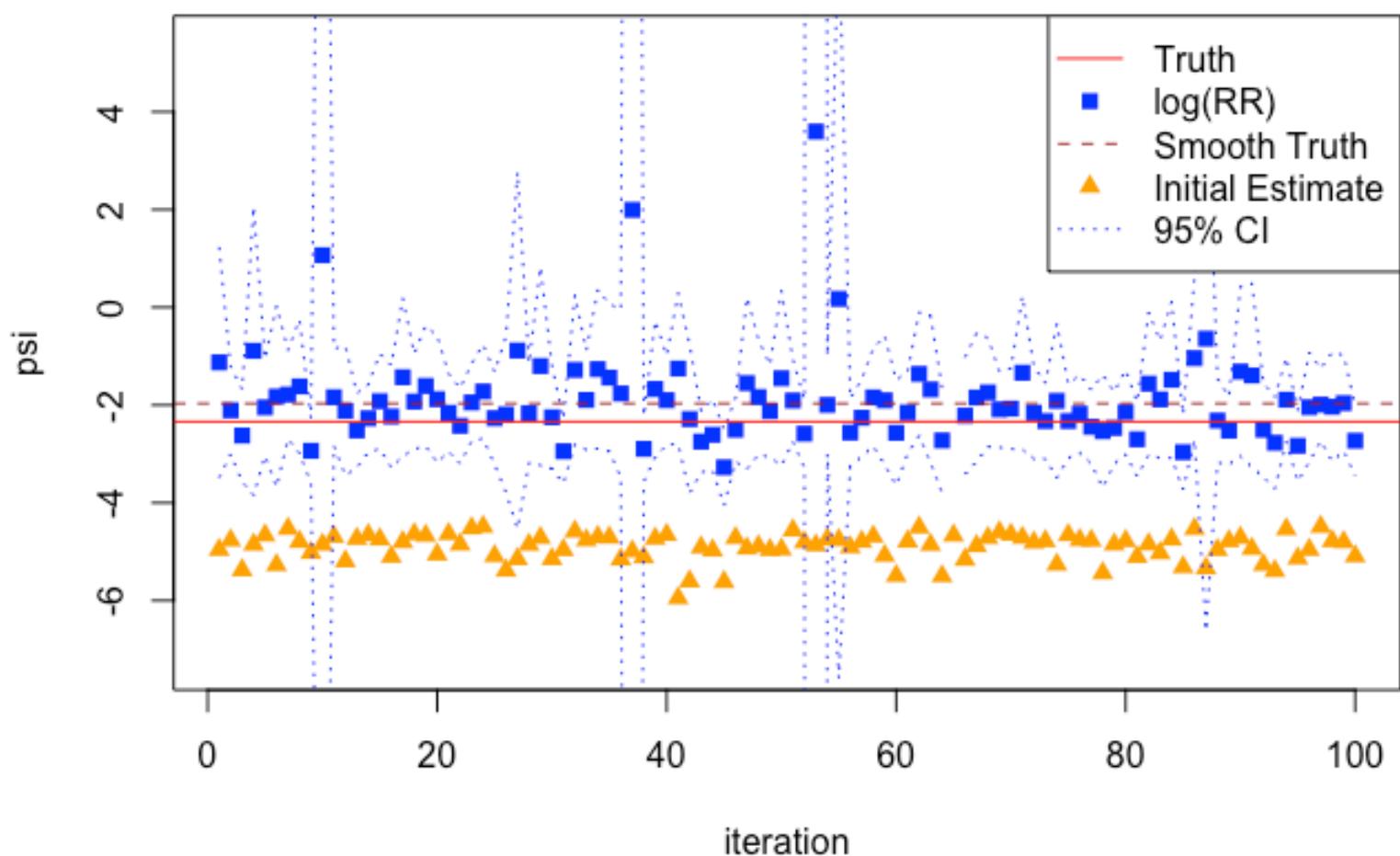
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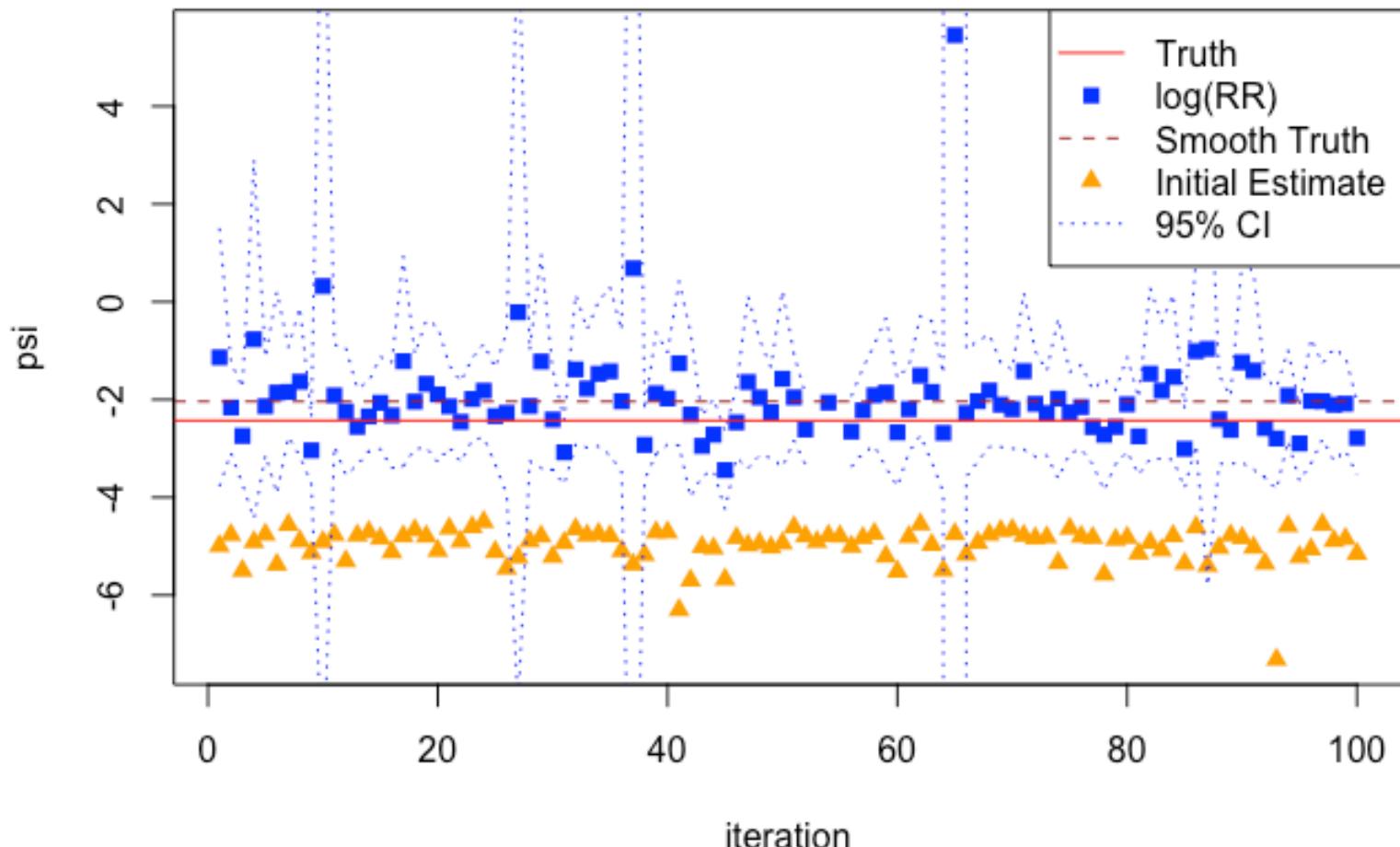
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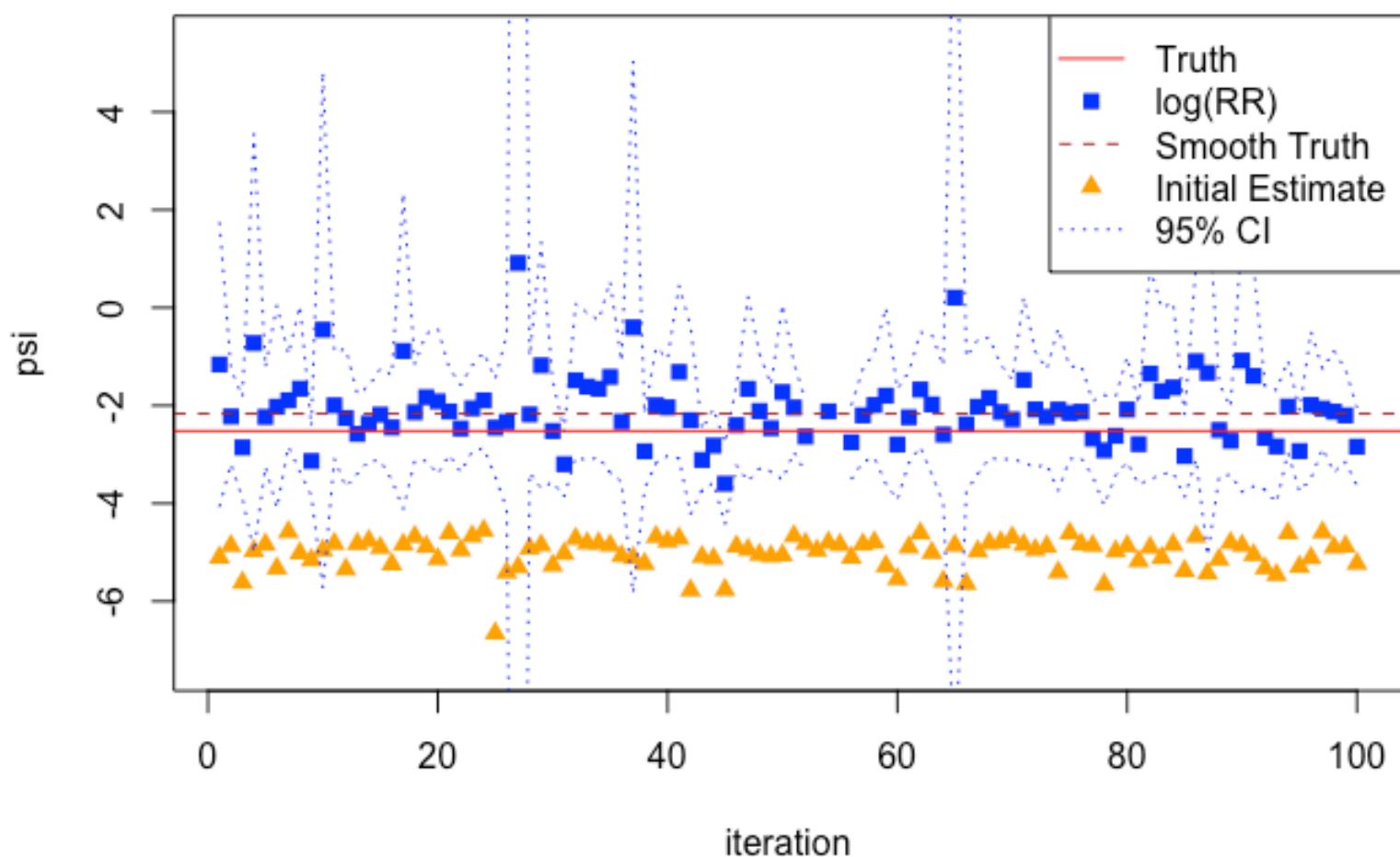
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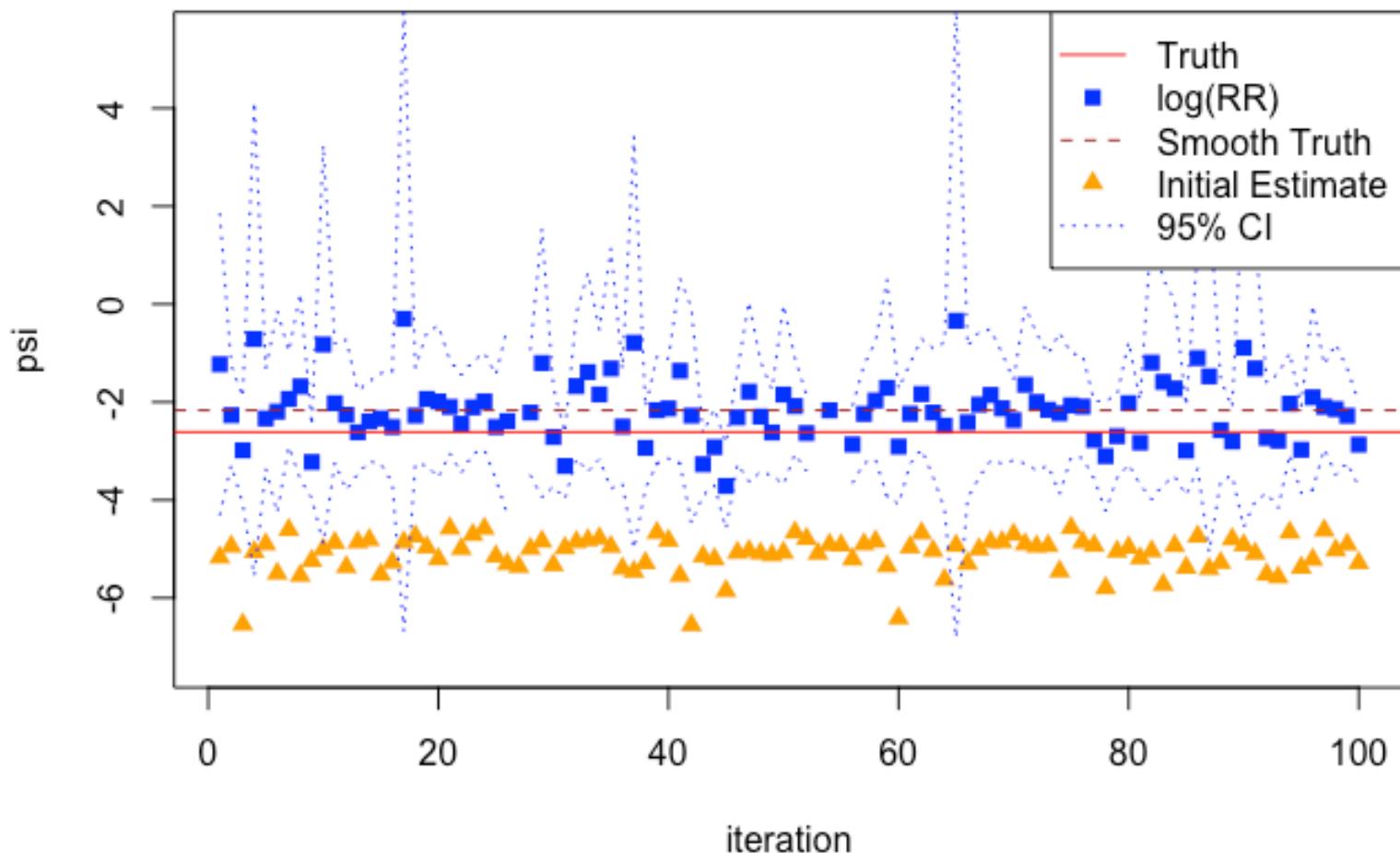
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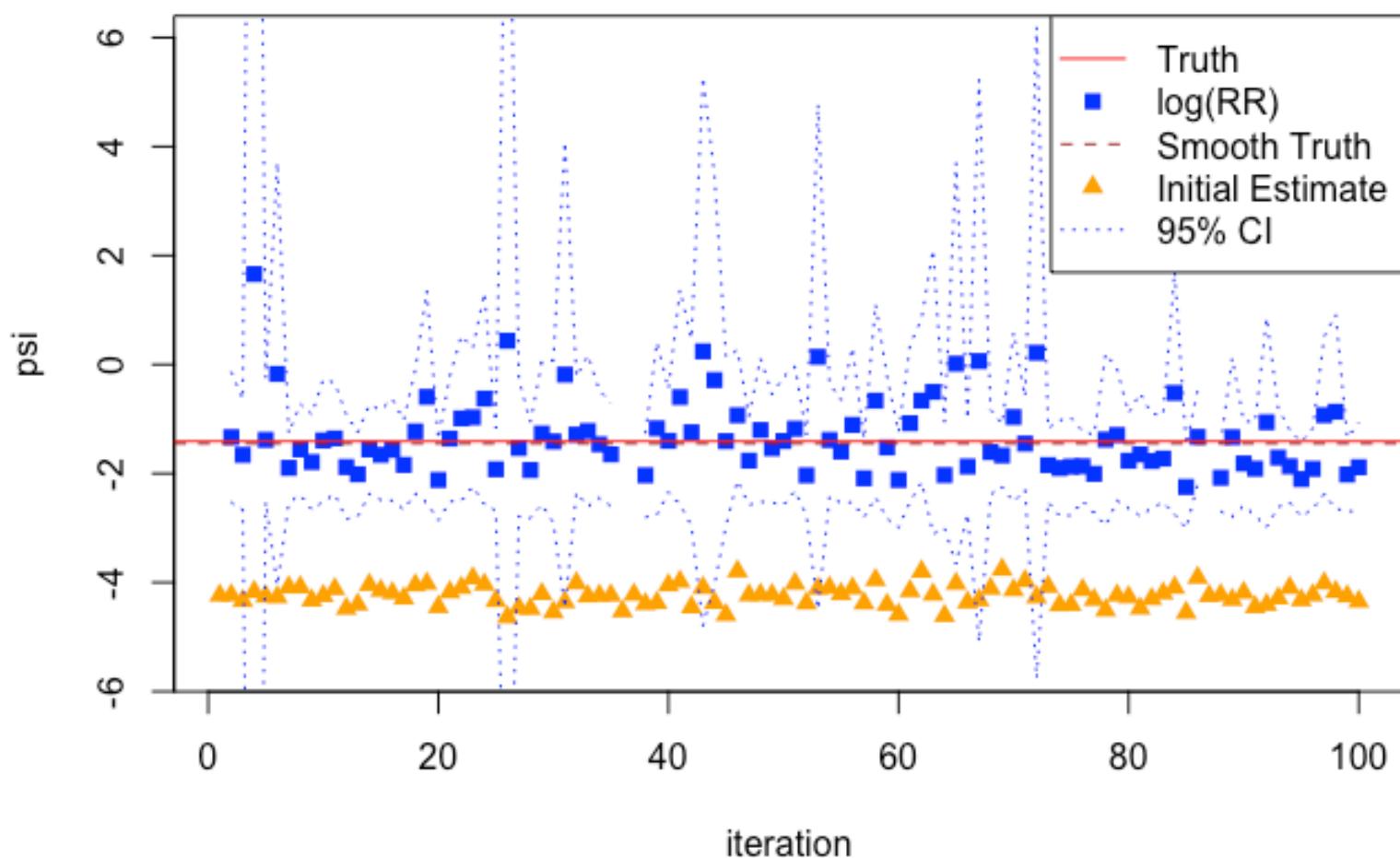
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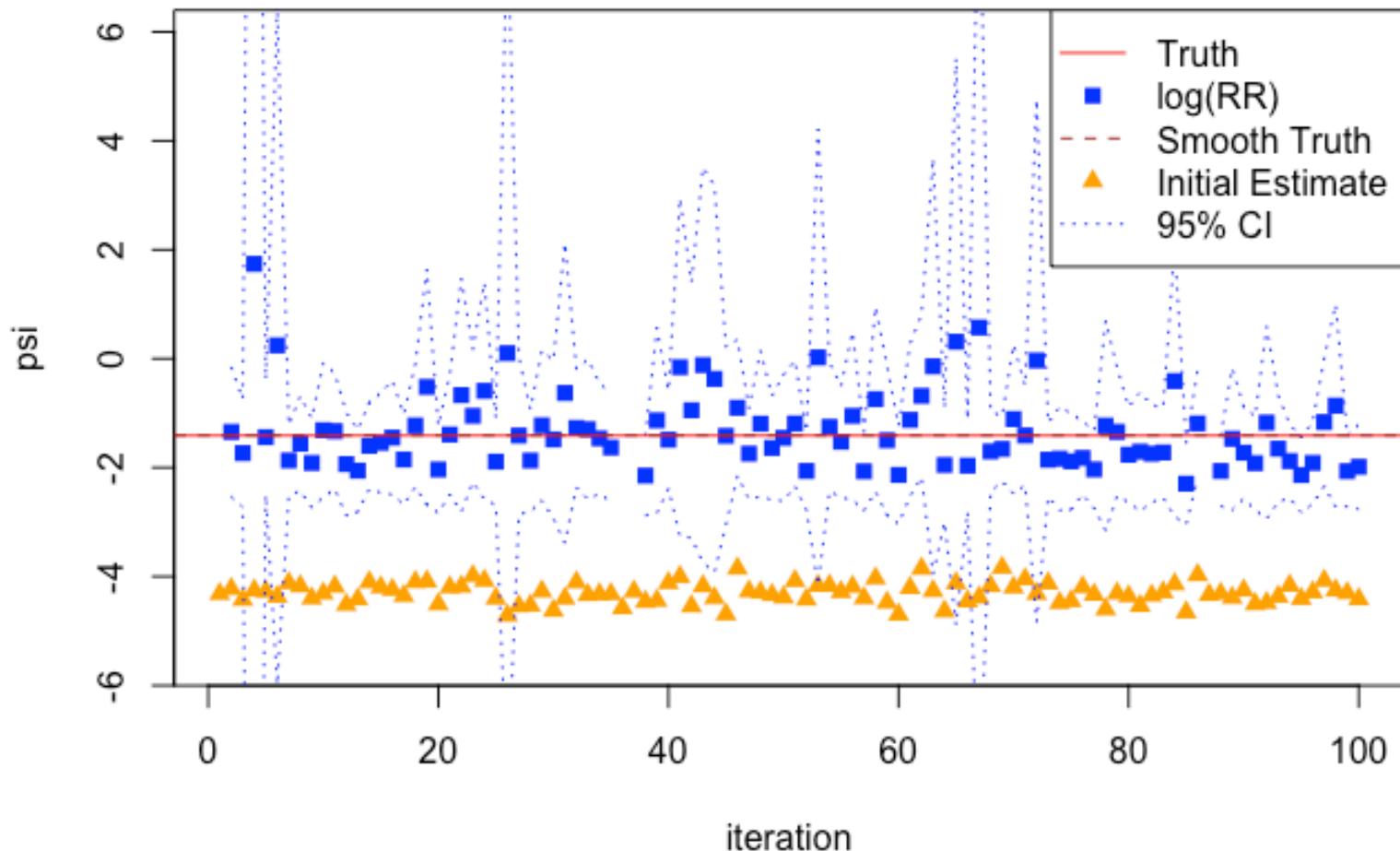
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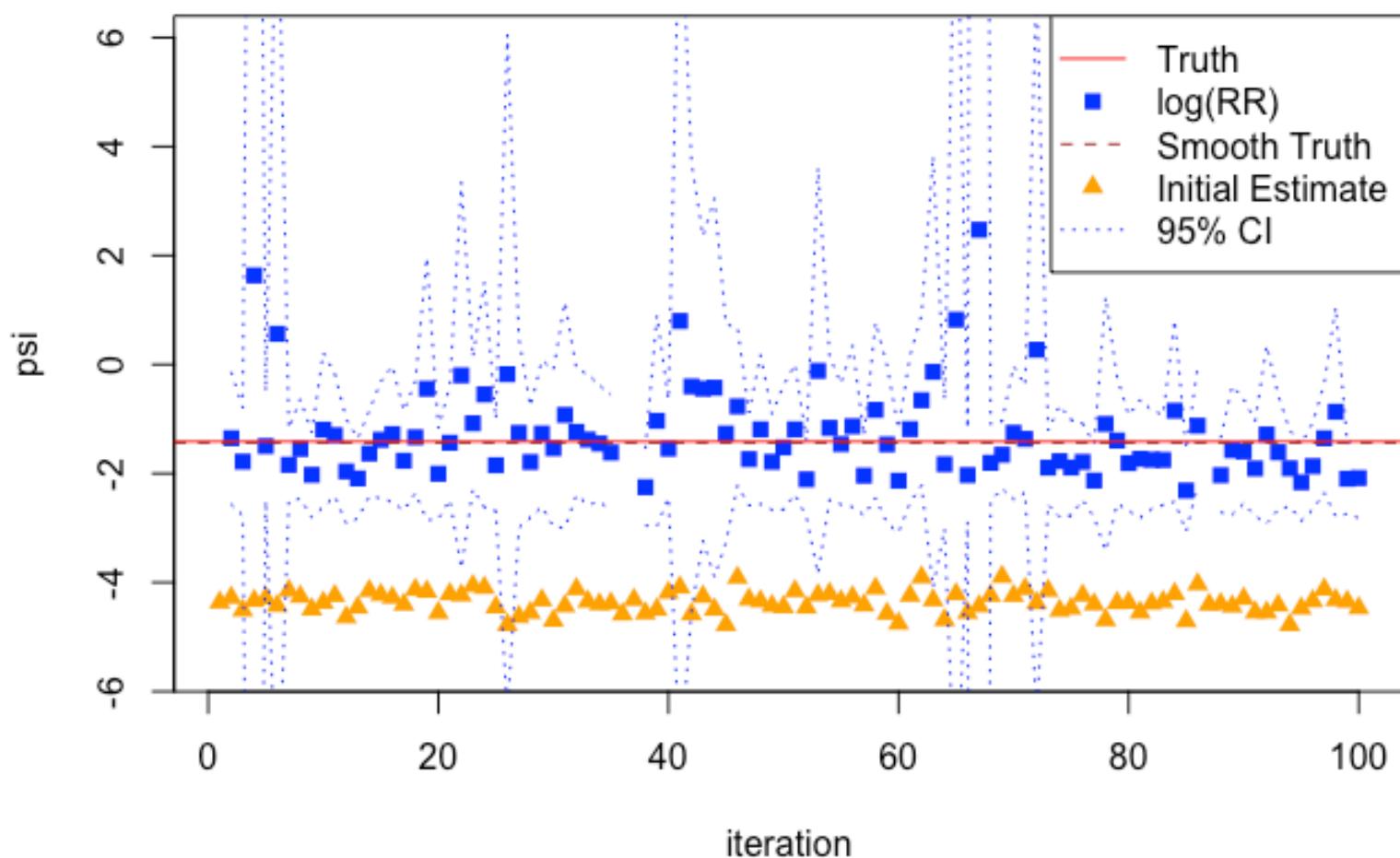
s1=0 Null case for $\text{cor}(S1,W)=0.5$, crossover rate=1, sample rate=0.25



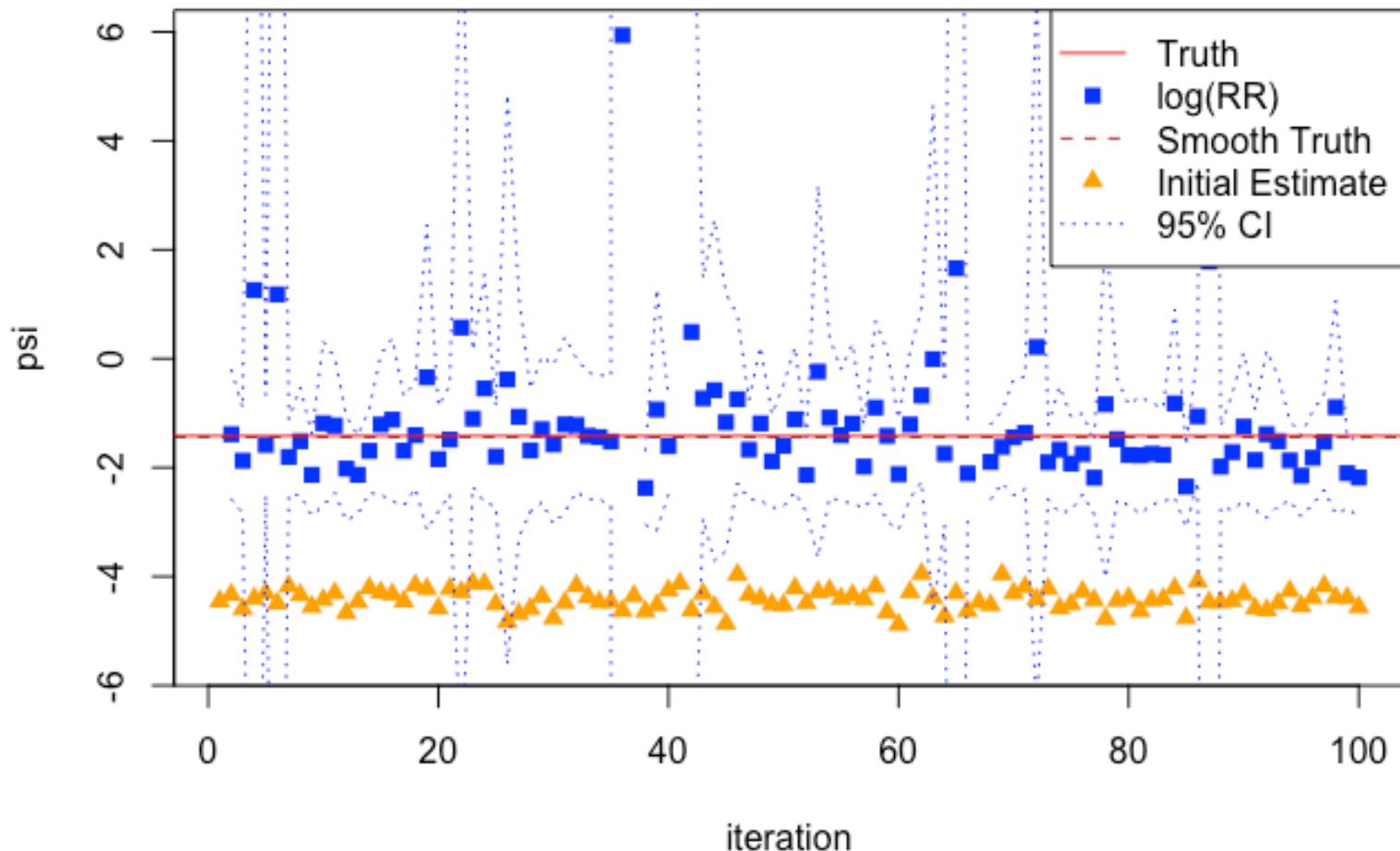
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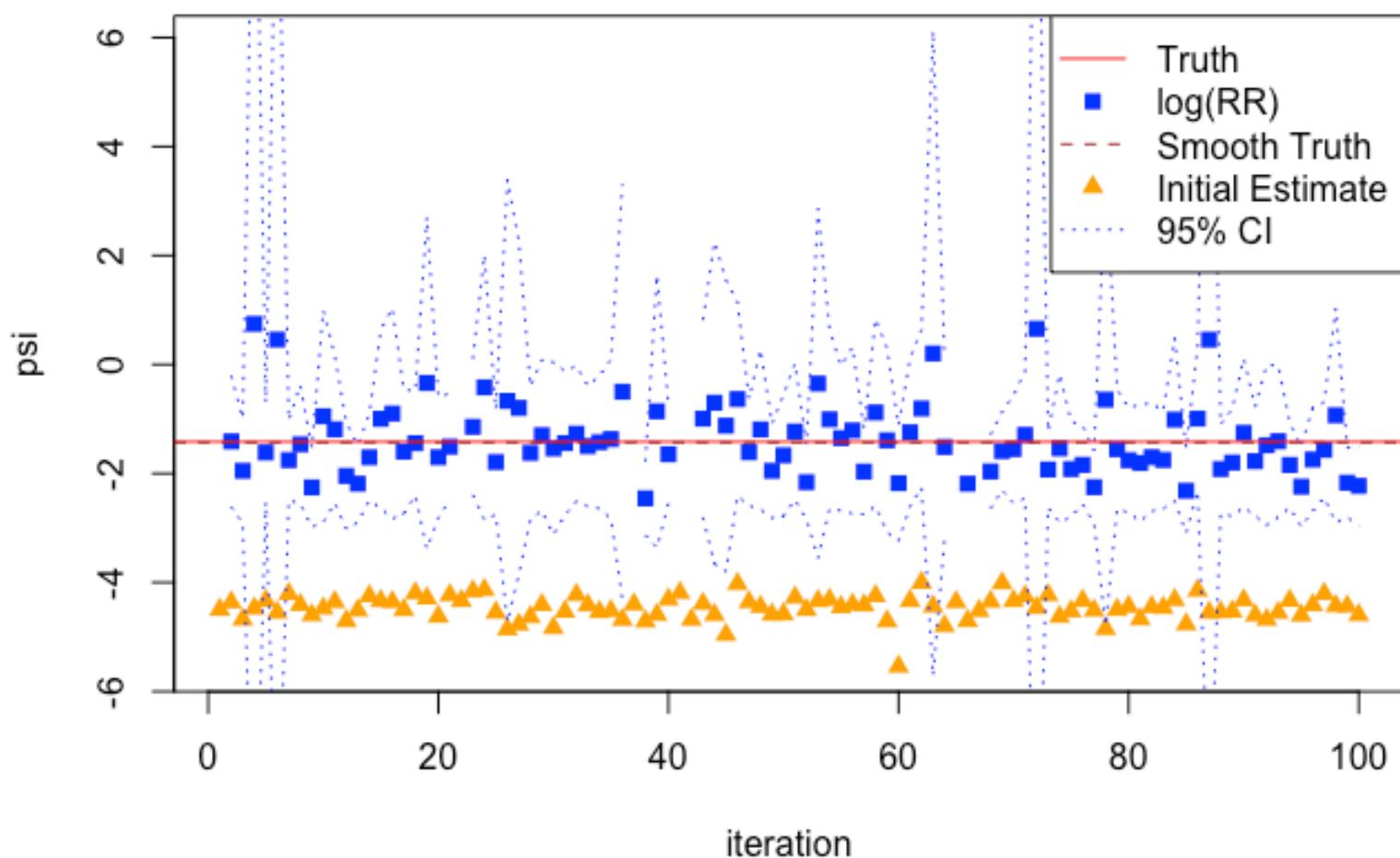
s1=0.2 Null case for $\text{cor}(S1, W)=0.5$, crossover rate=1, sample rate=0.25



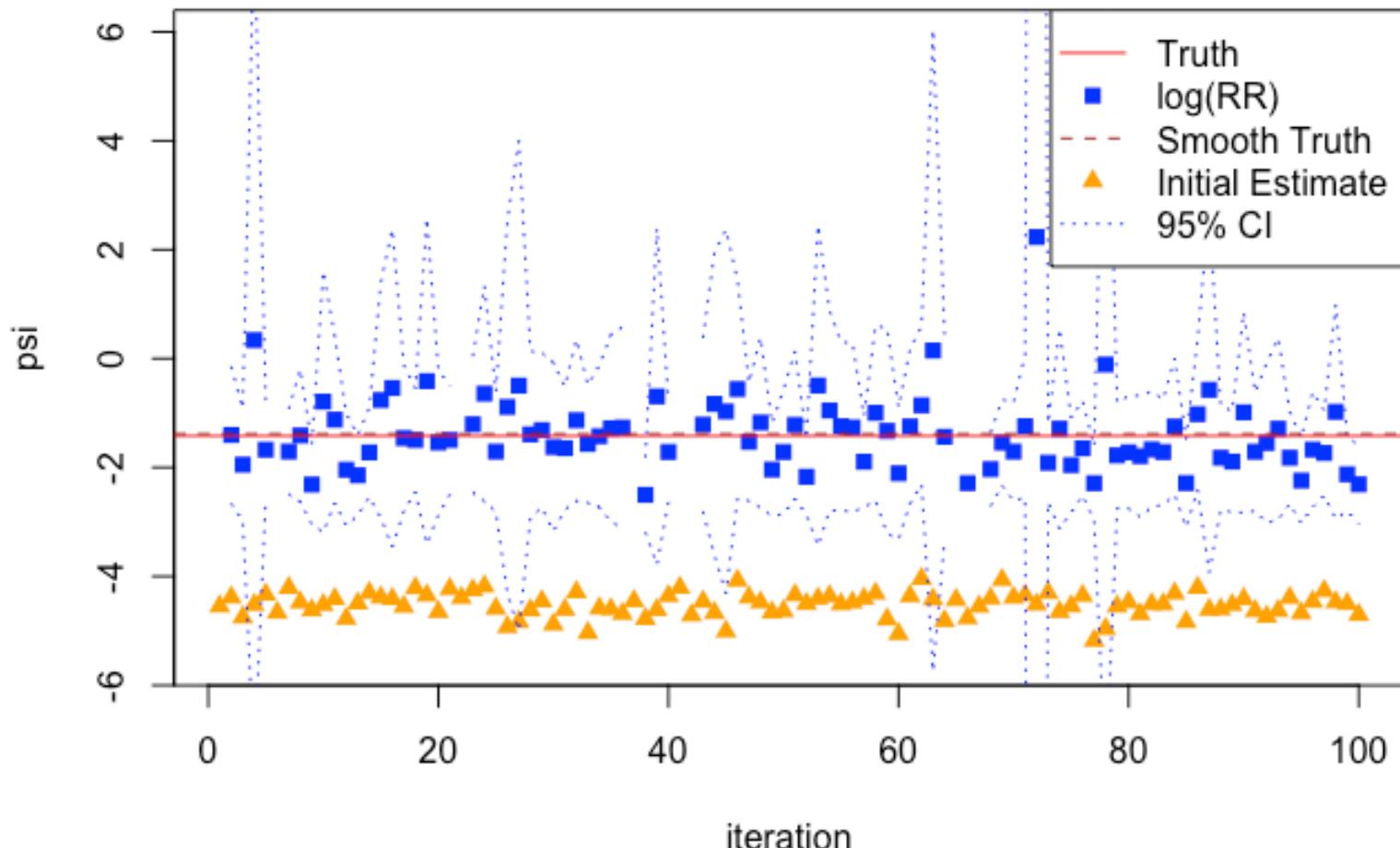
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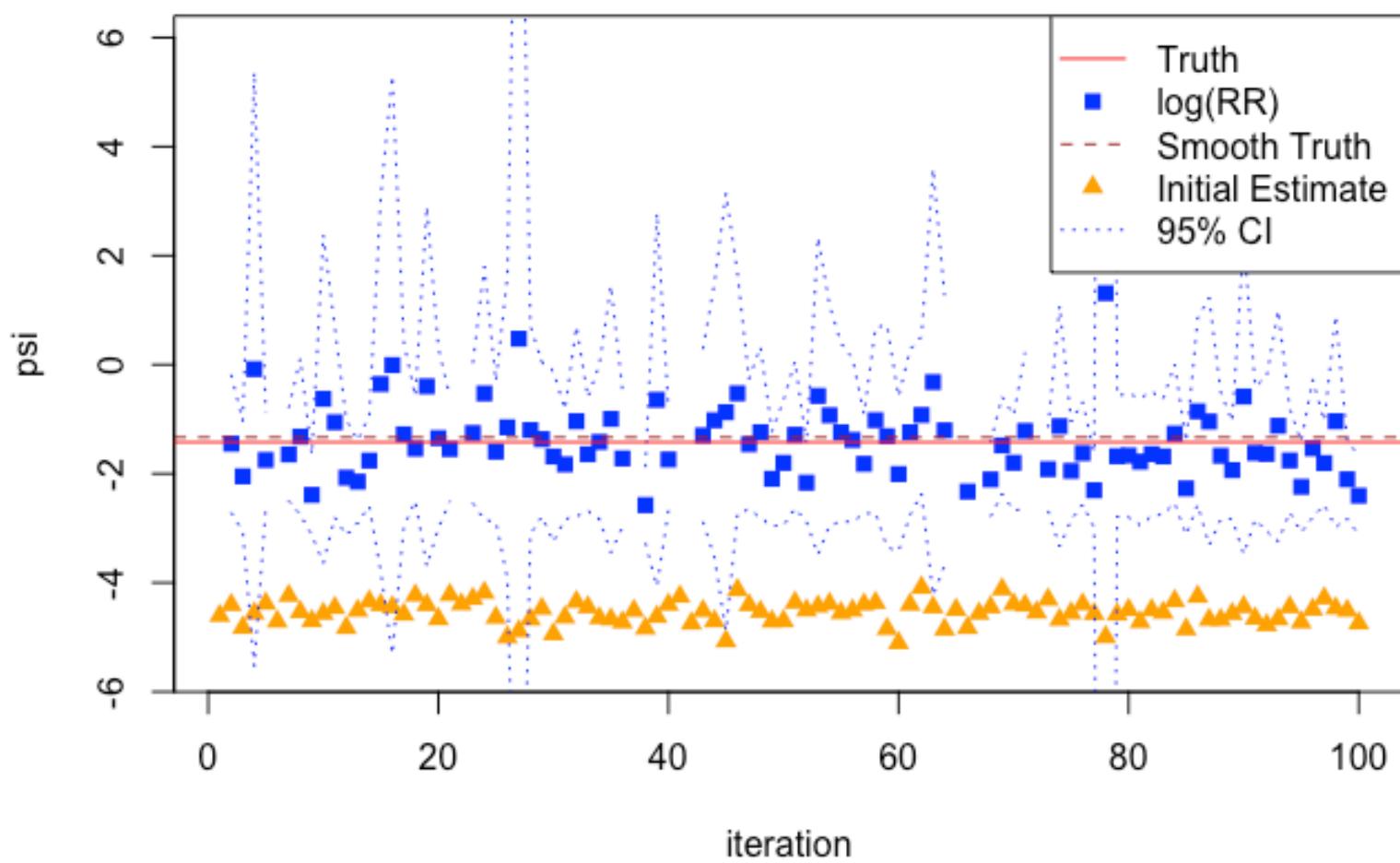
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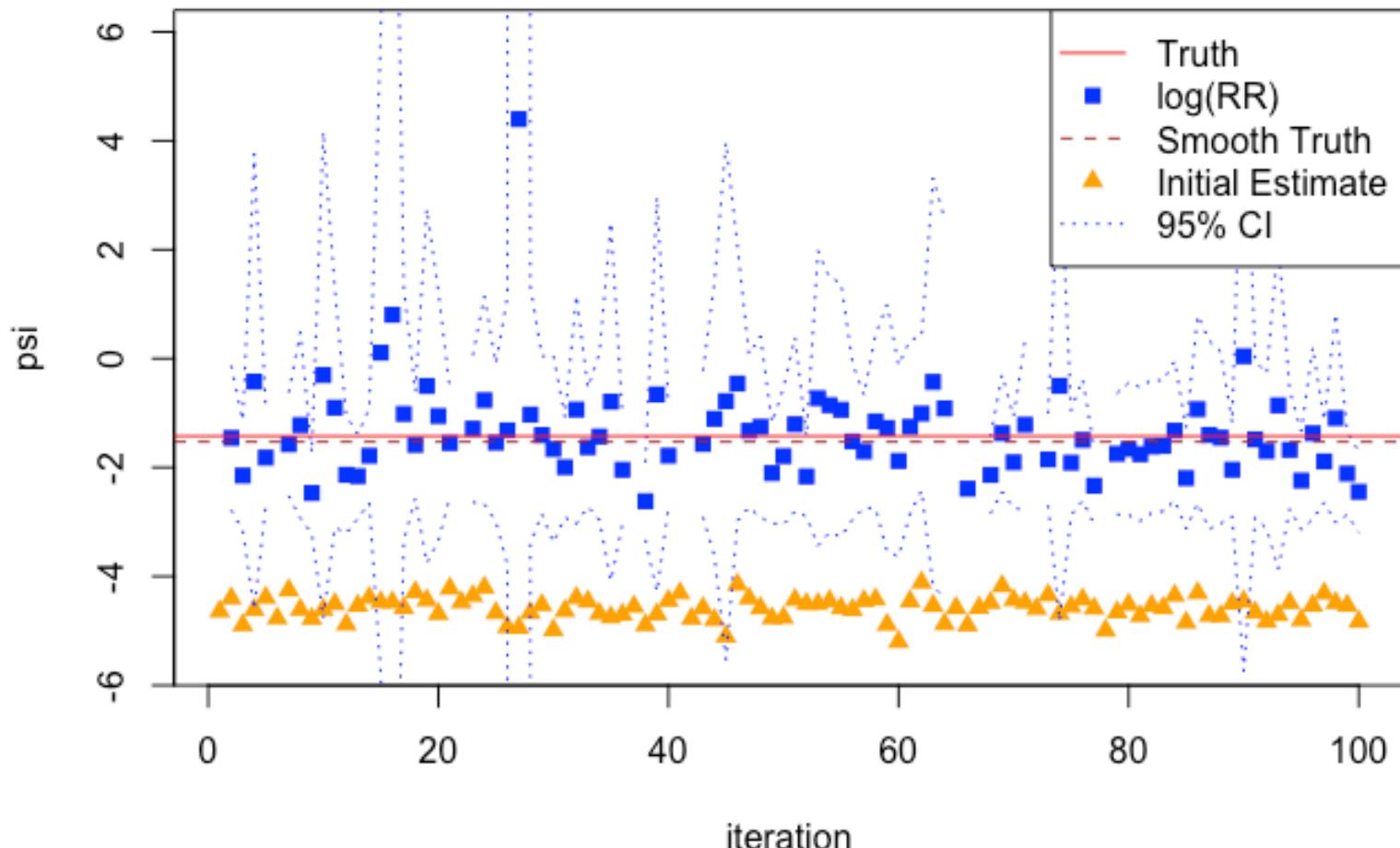
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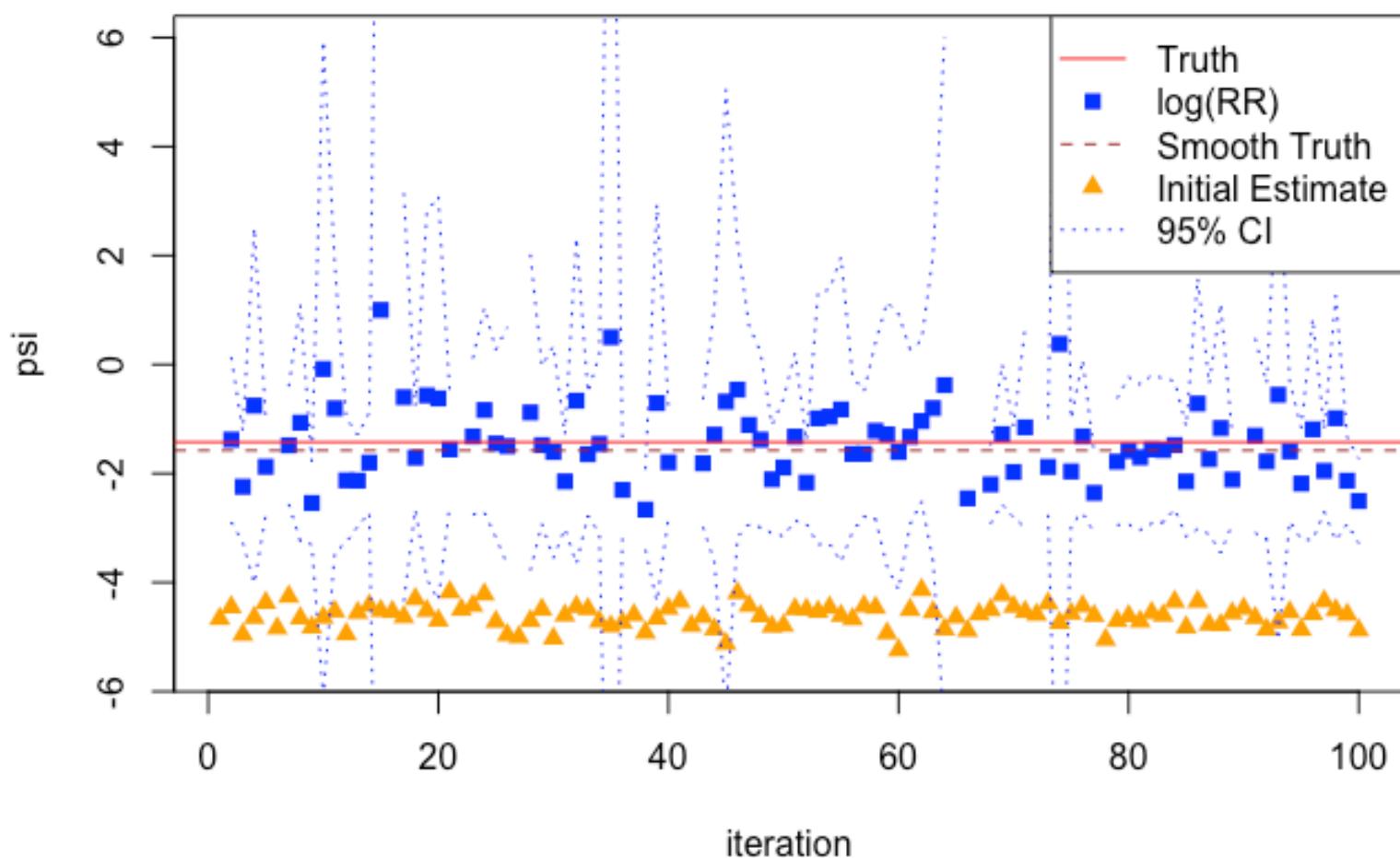
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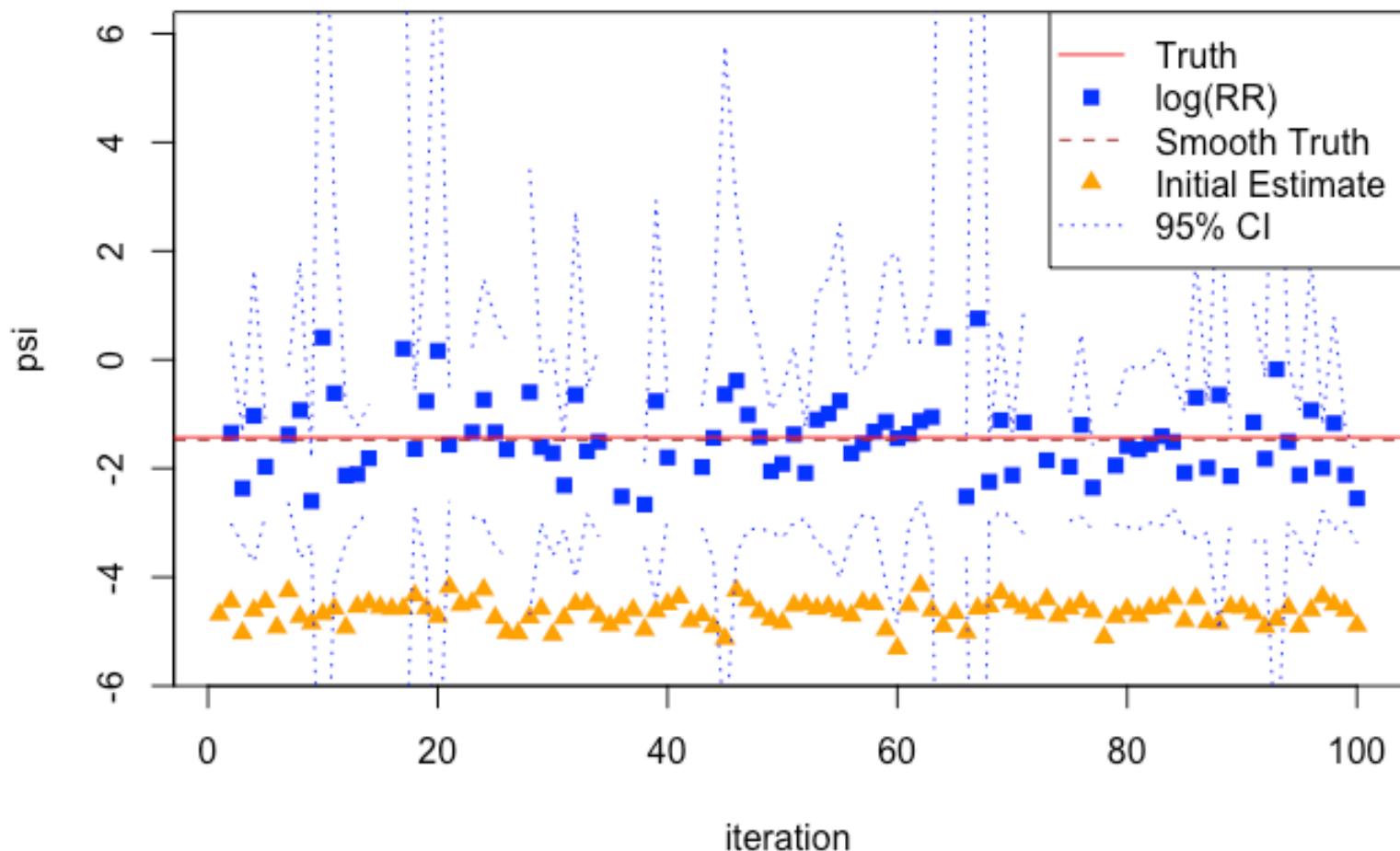
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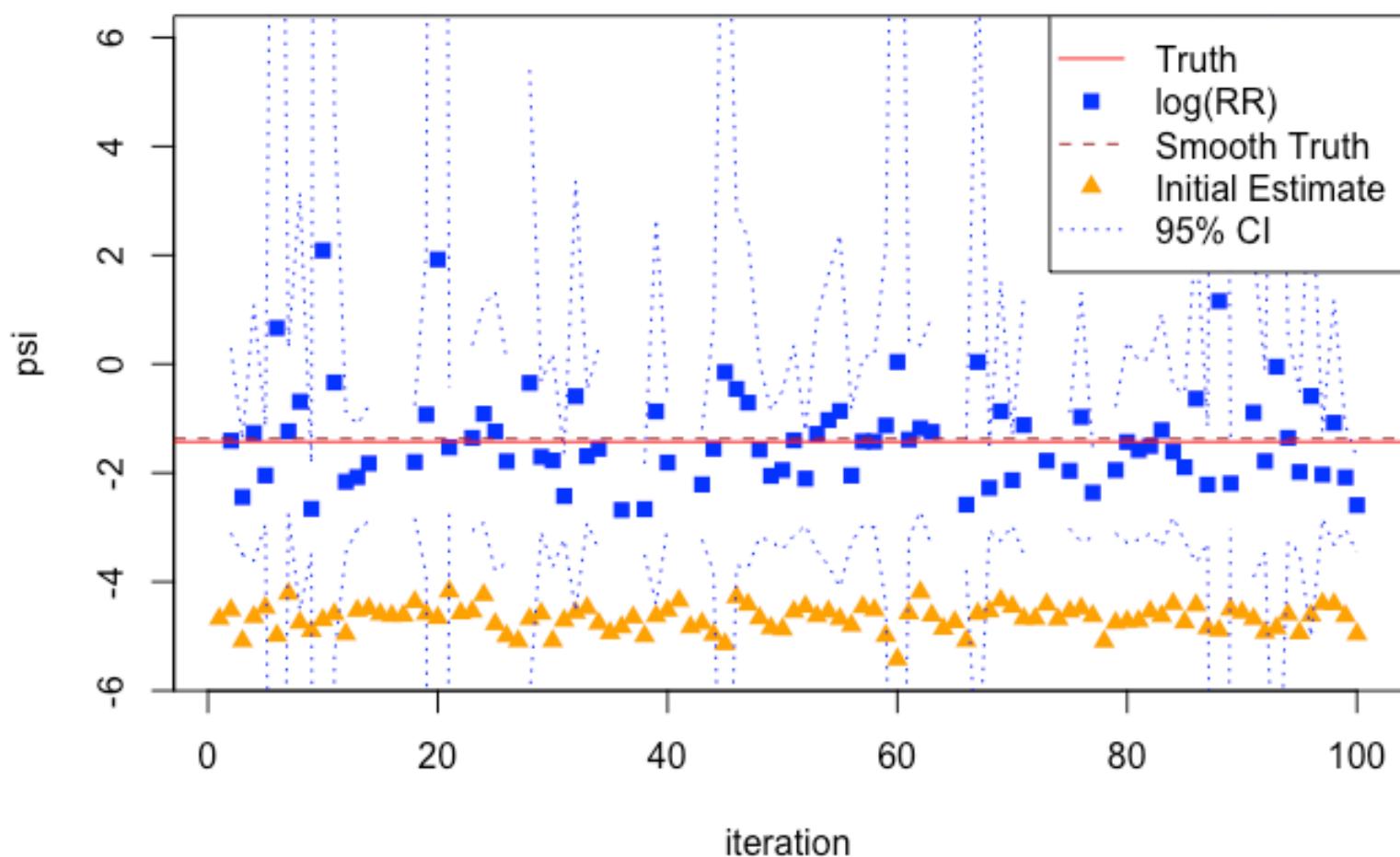
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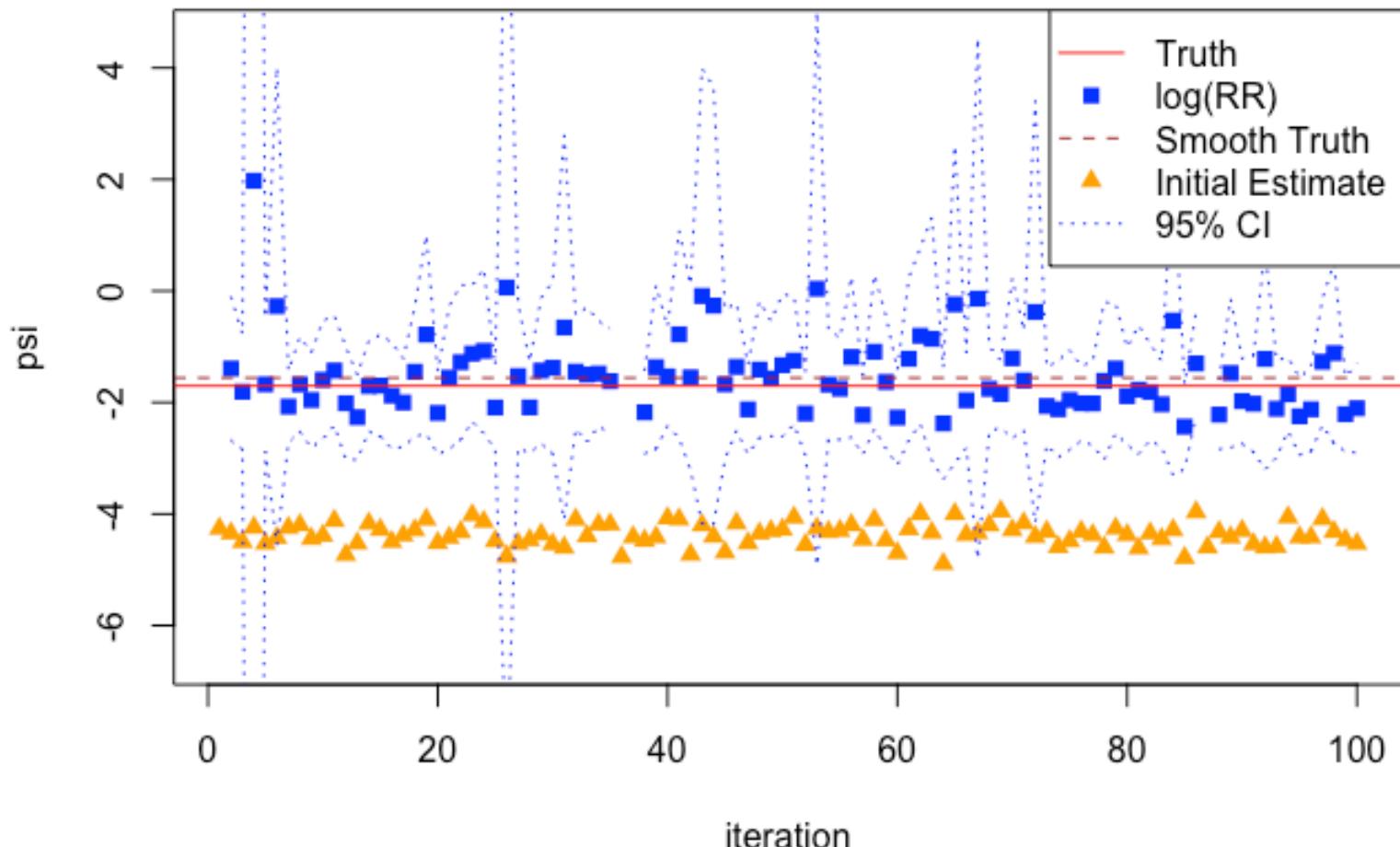
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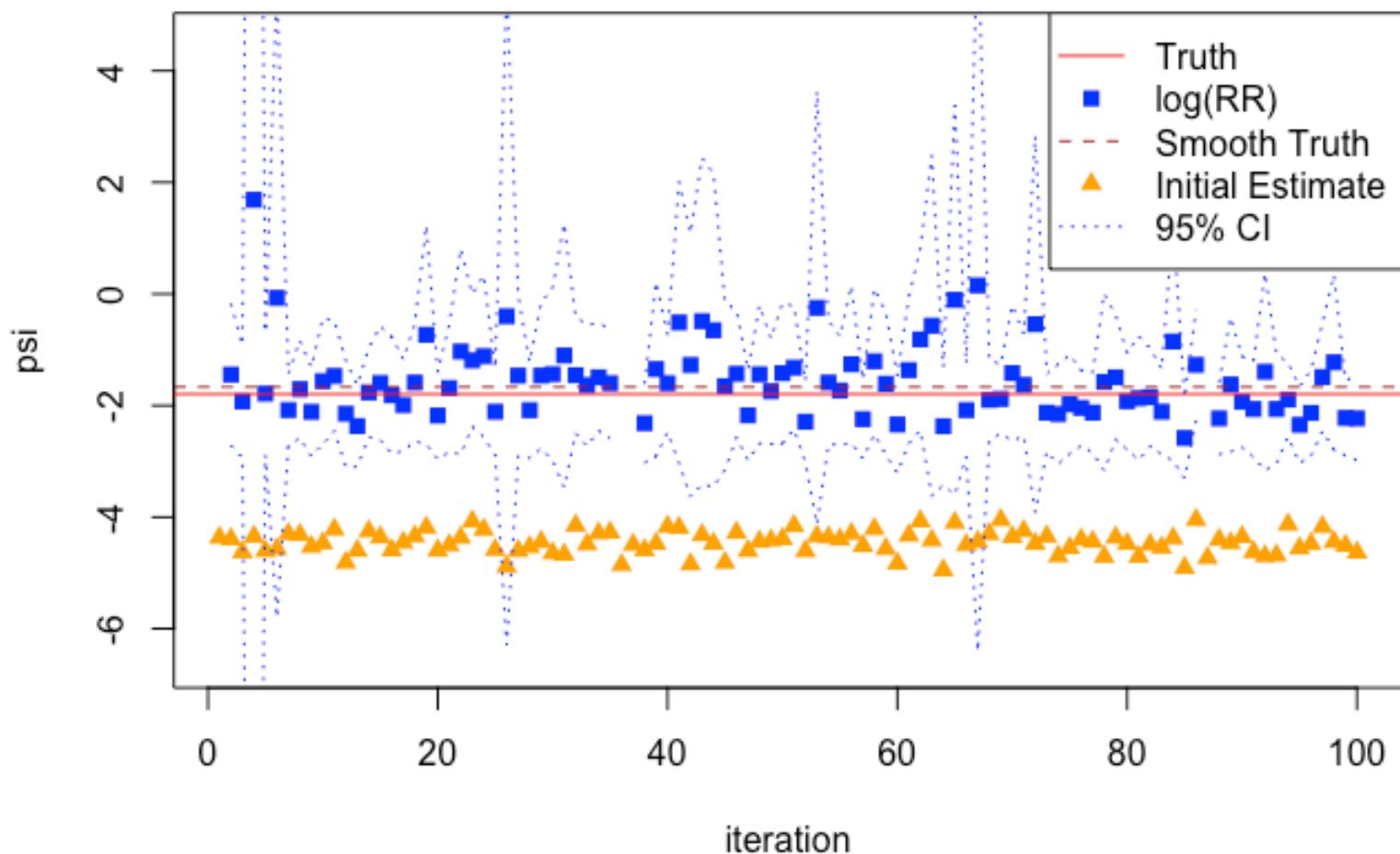
s1=1 Null case for cor(S1,W)=0.5, crossover rate=1, sample rate=0.25



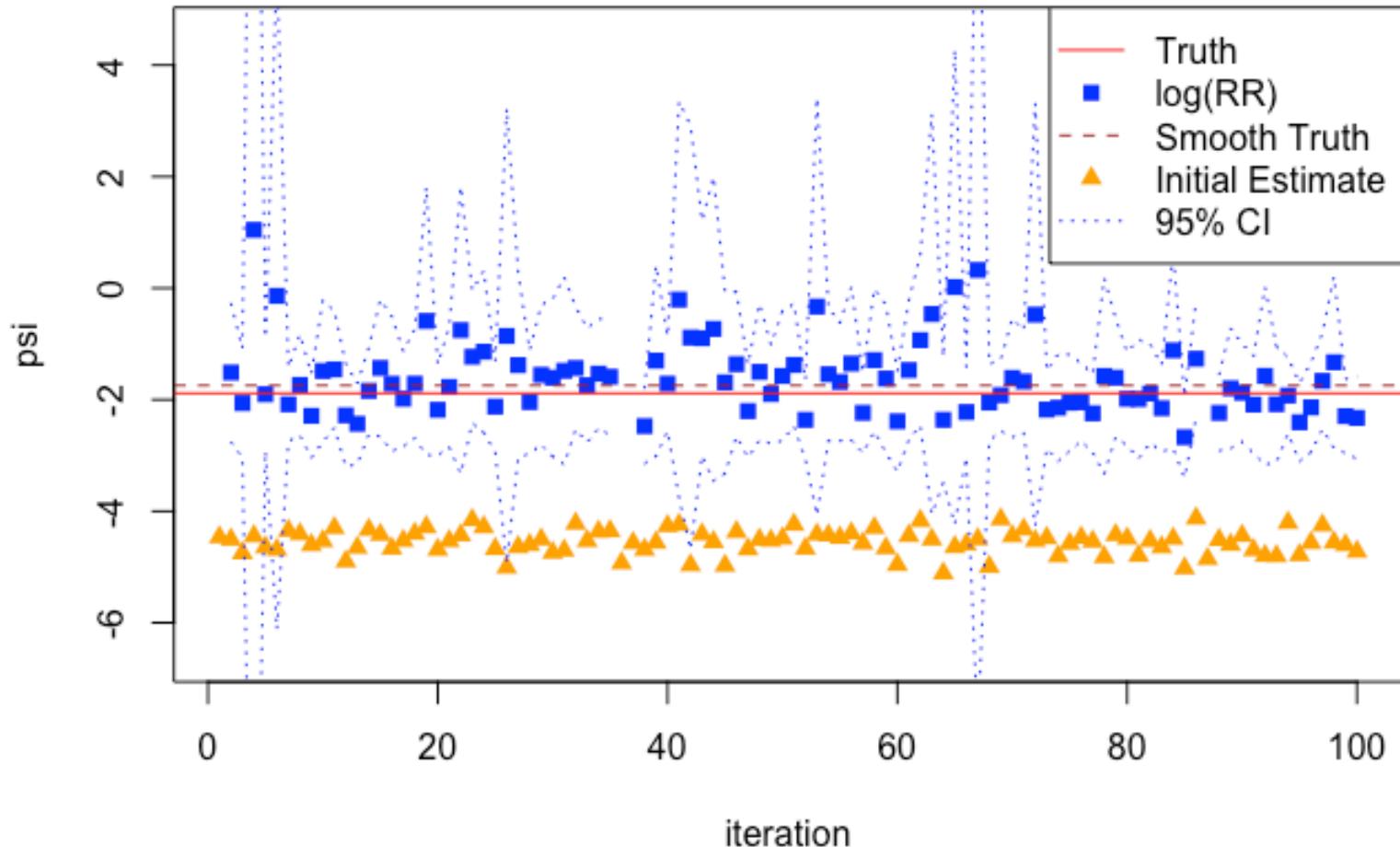
s1=0 Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=1, sample rate=0.25



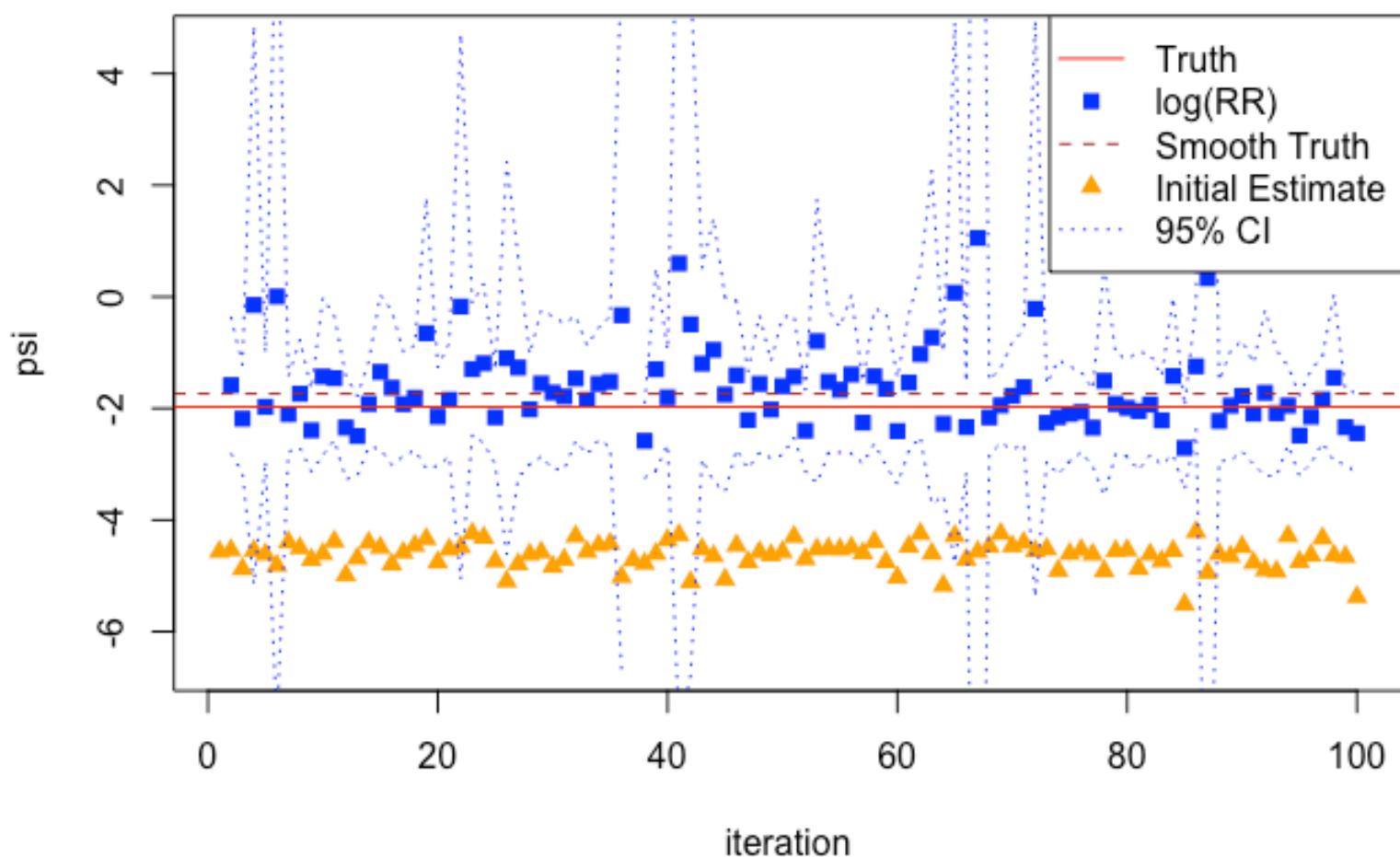
s1=0.1 Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=1, sample rate=0.25



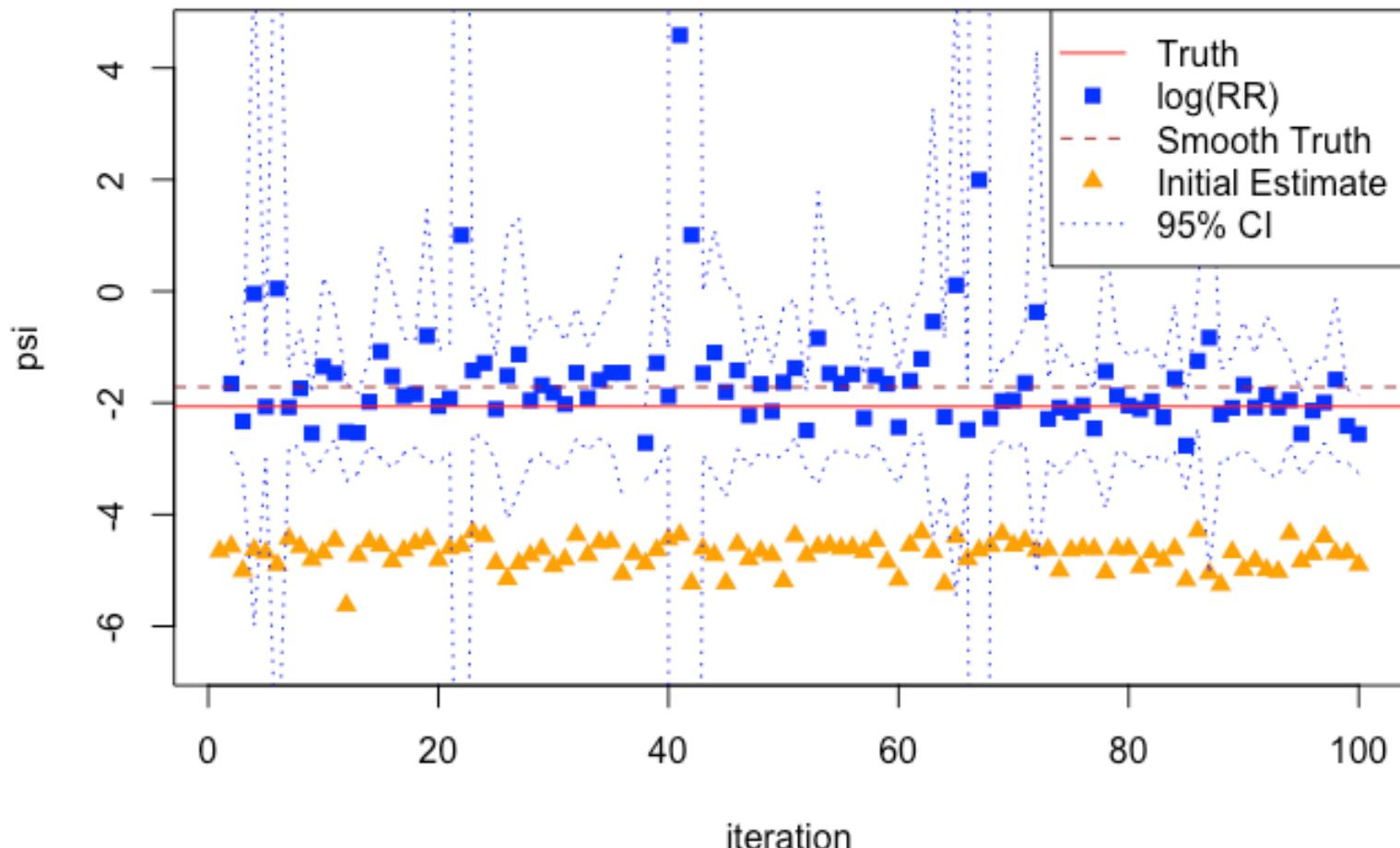
$s_1=0.2$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=1, sample rate=0.25



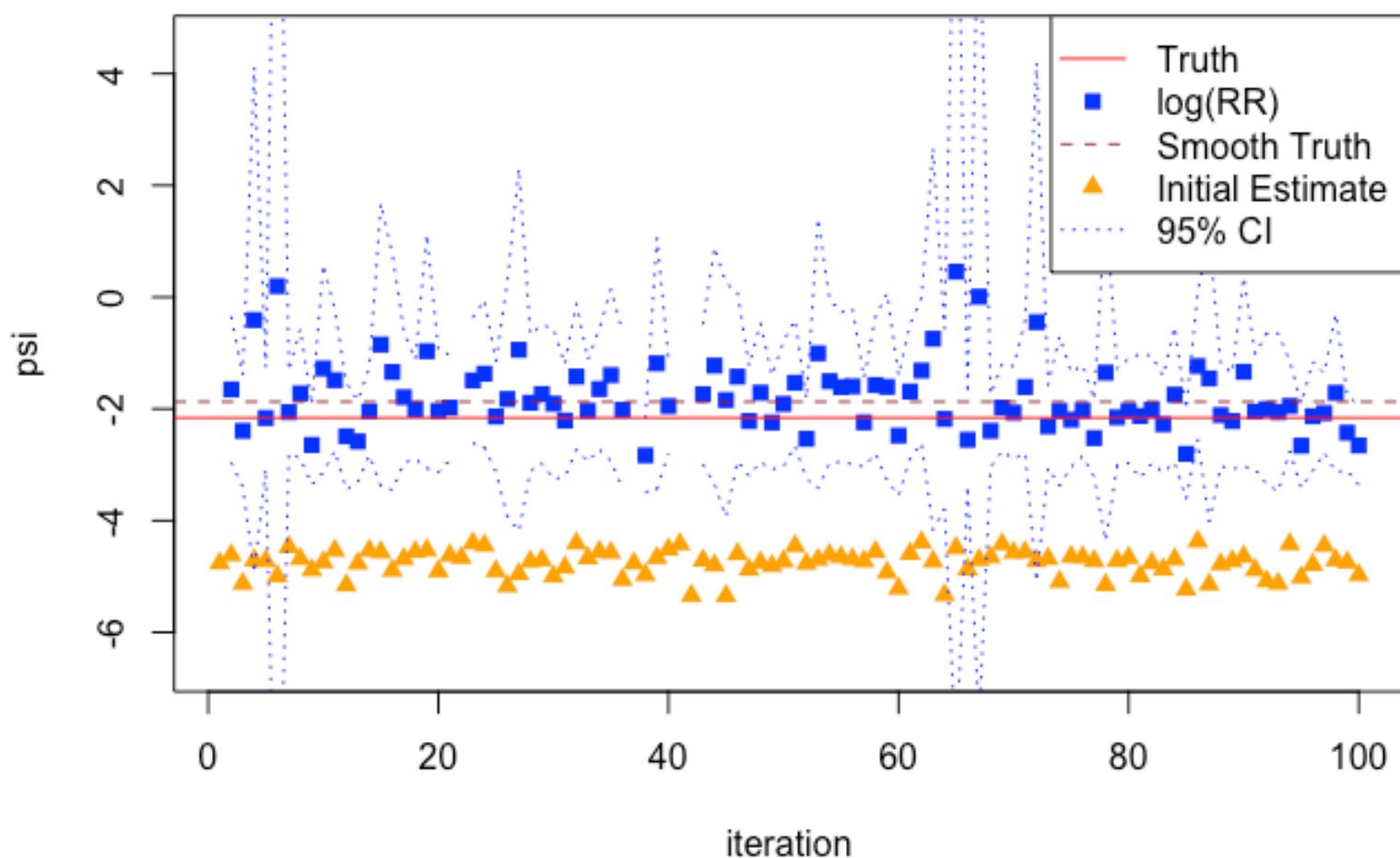
$s_1=0.3$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=1, sample rate=0.25



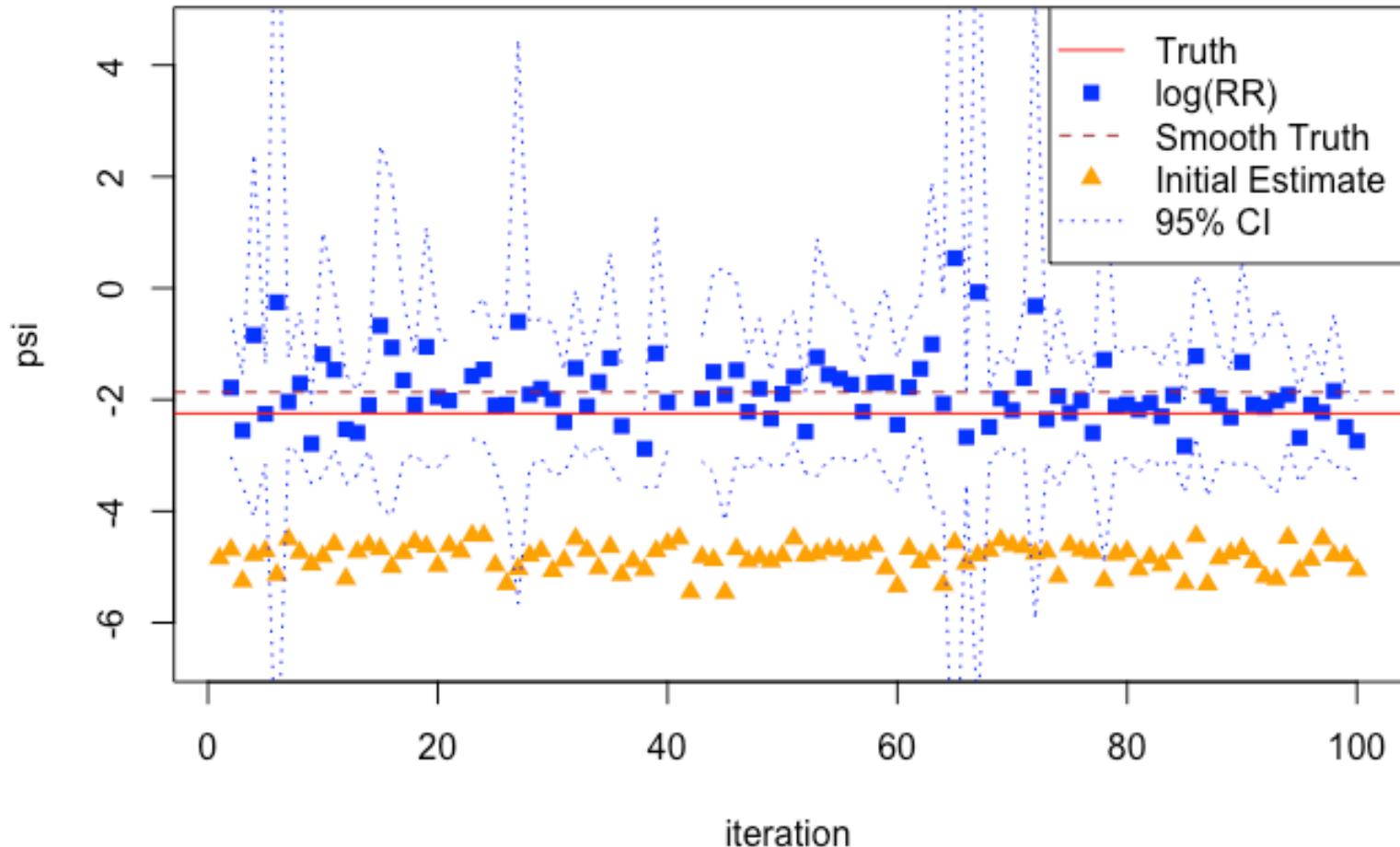
$s_1=0.4$ Alternative case for $\text{cor}(S1, W)=0.5$, crossover rate=1, sample rate=0.25



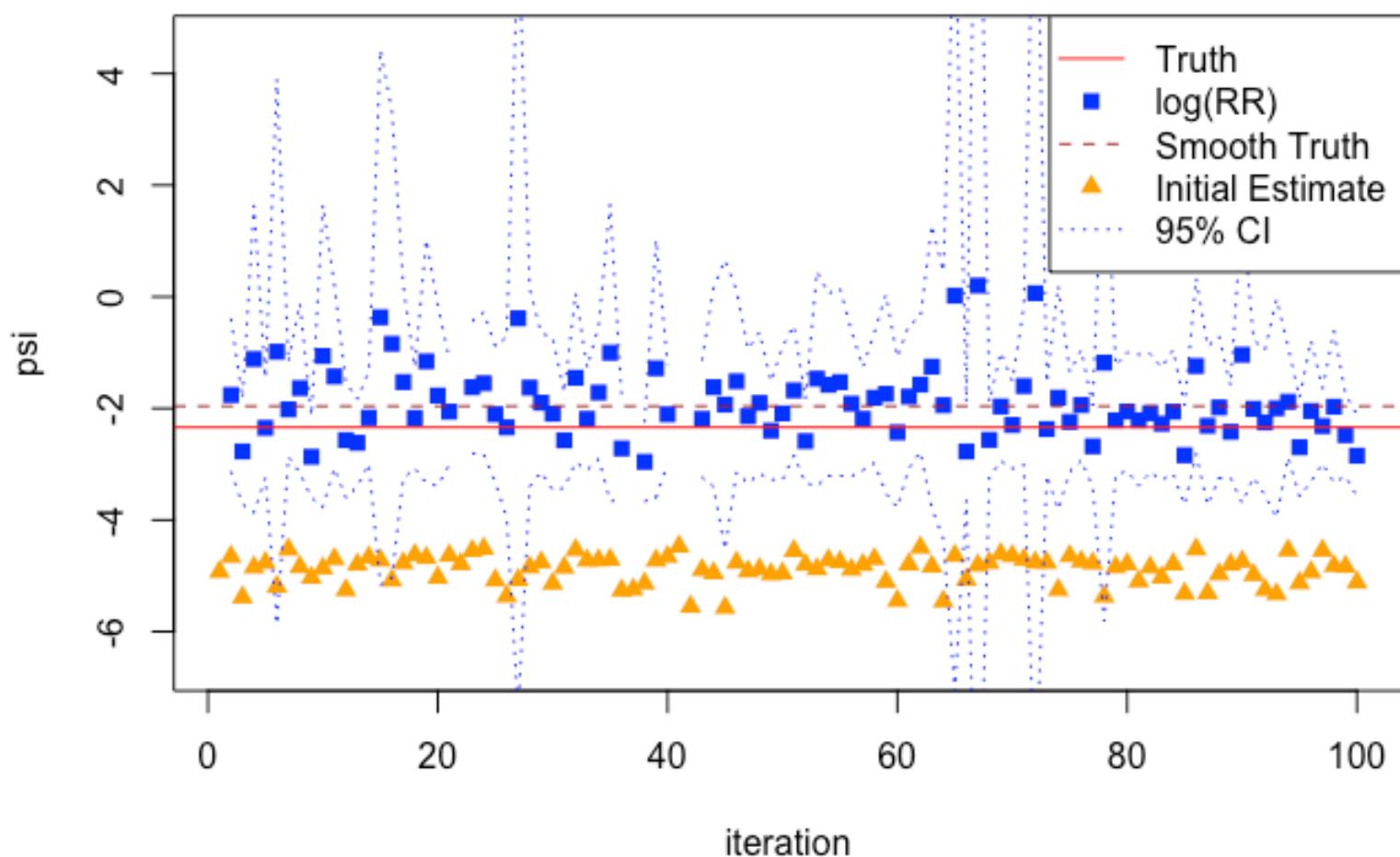
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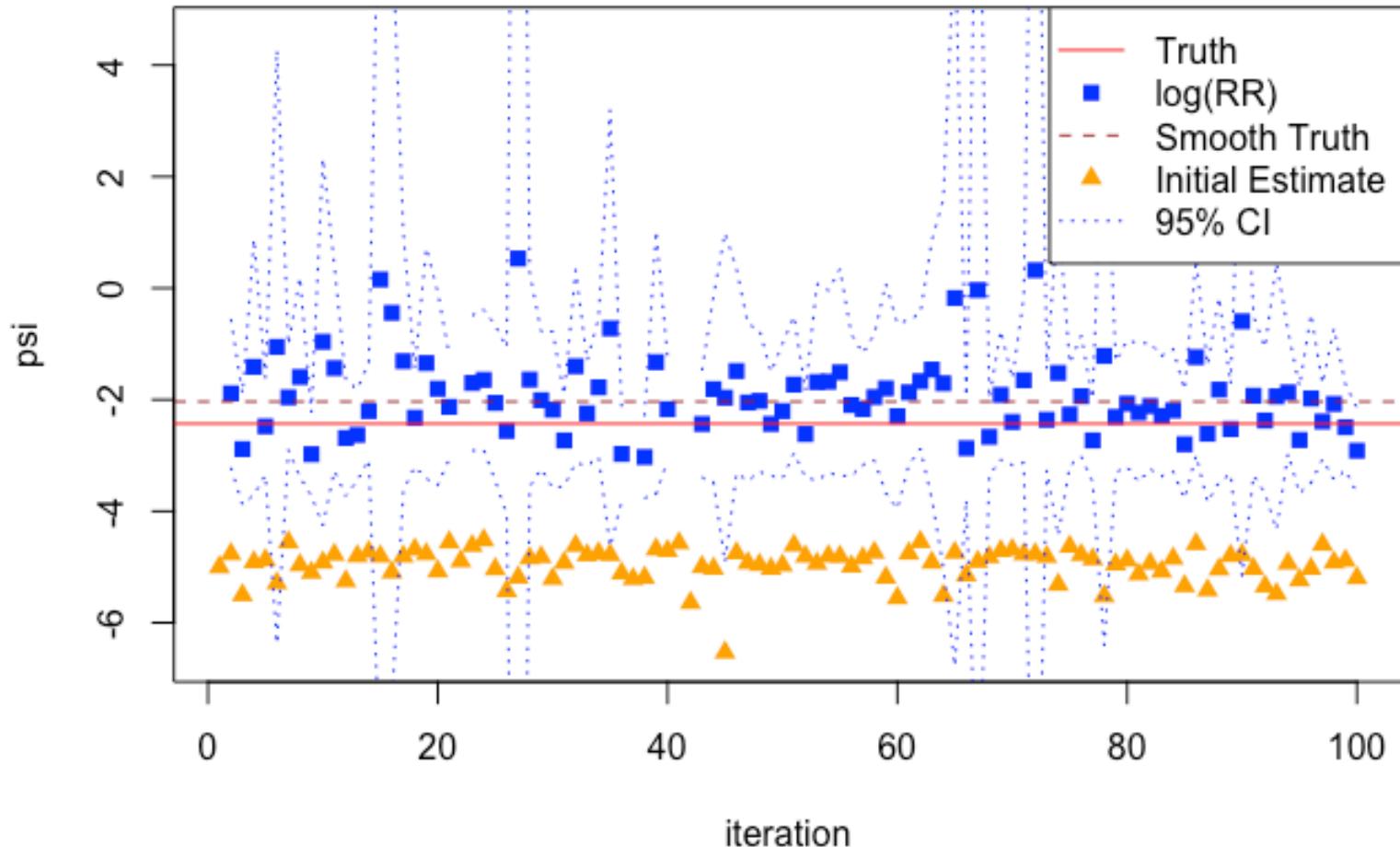
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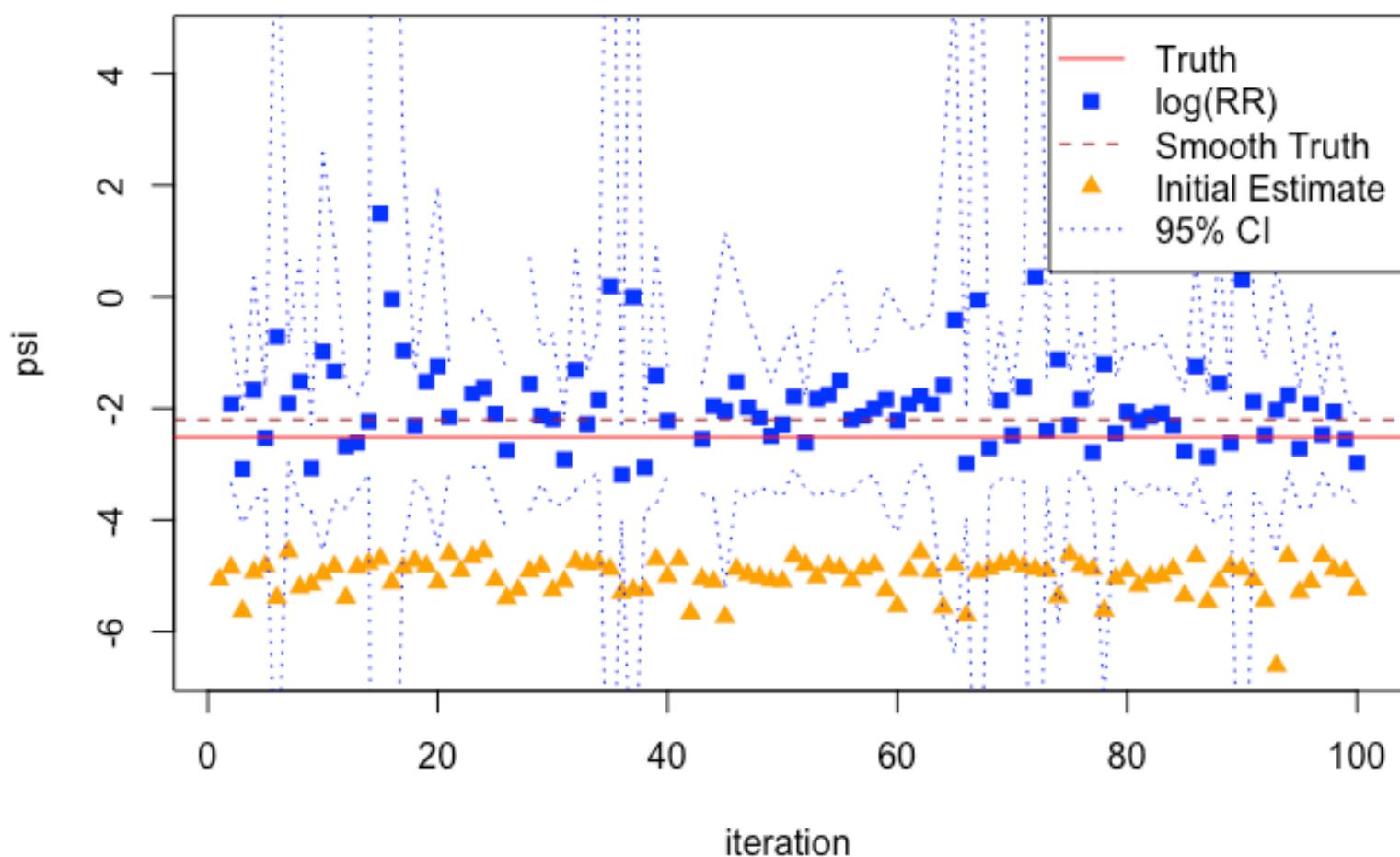
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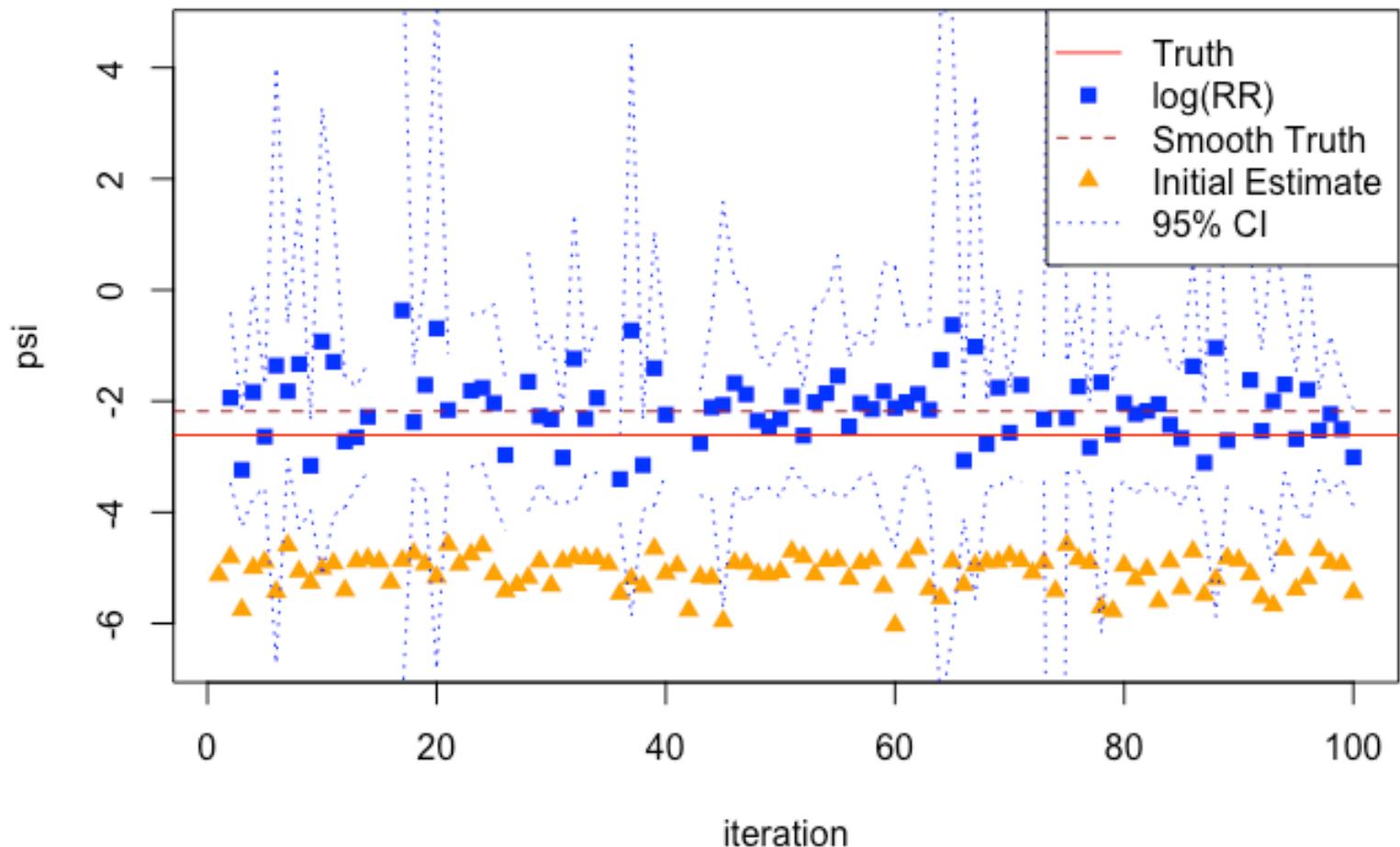
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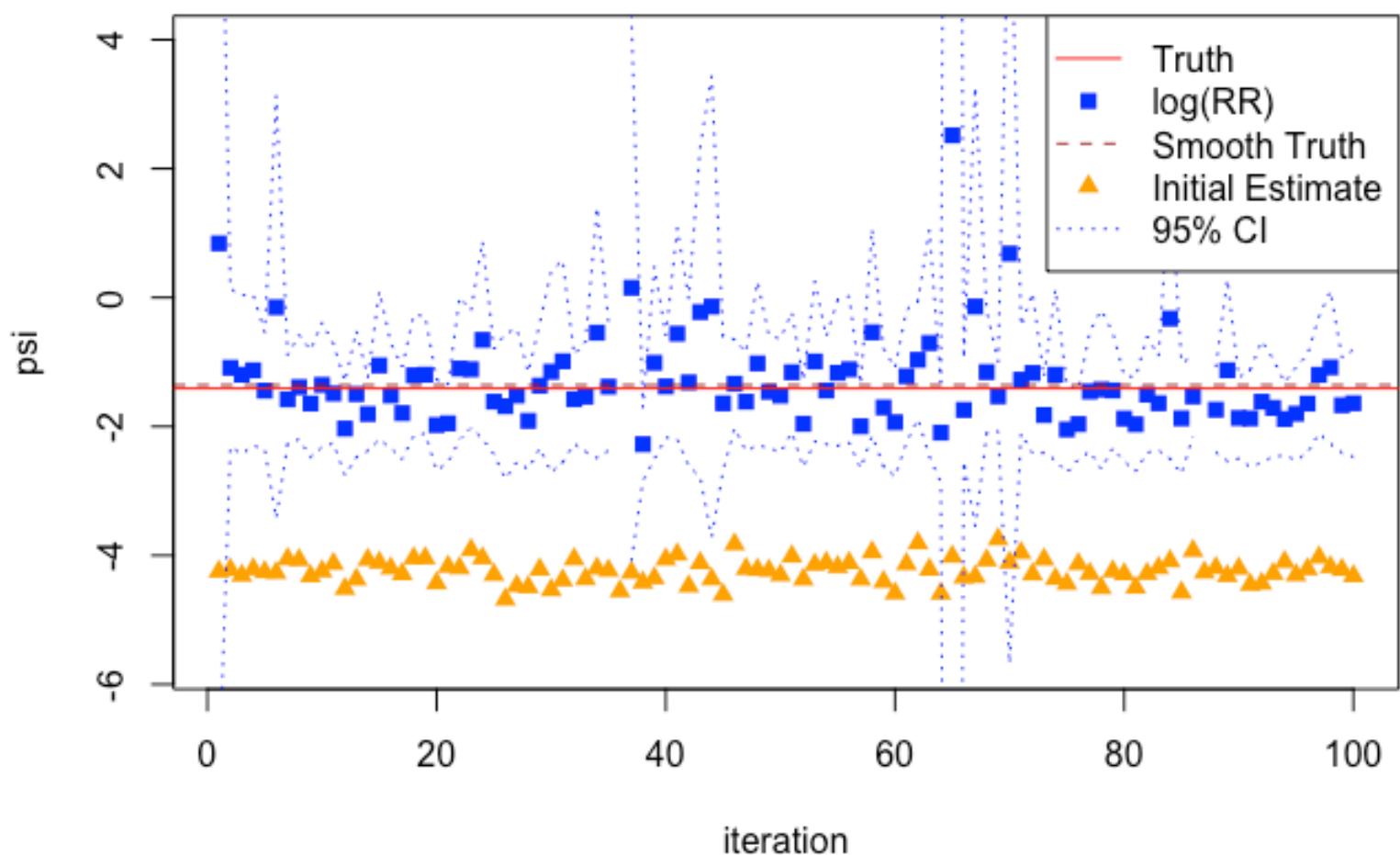
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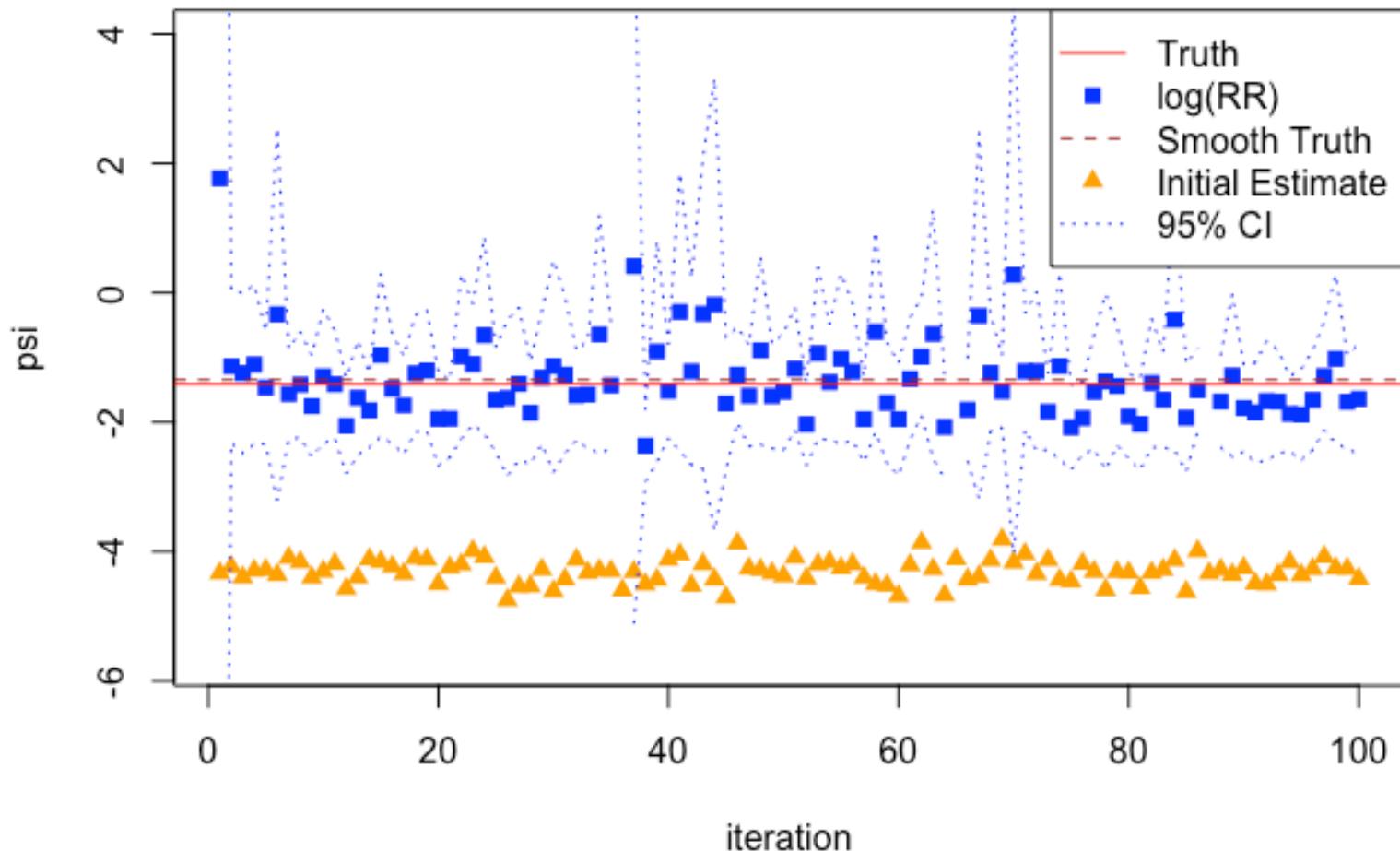
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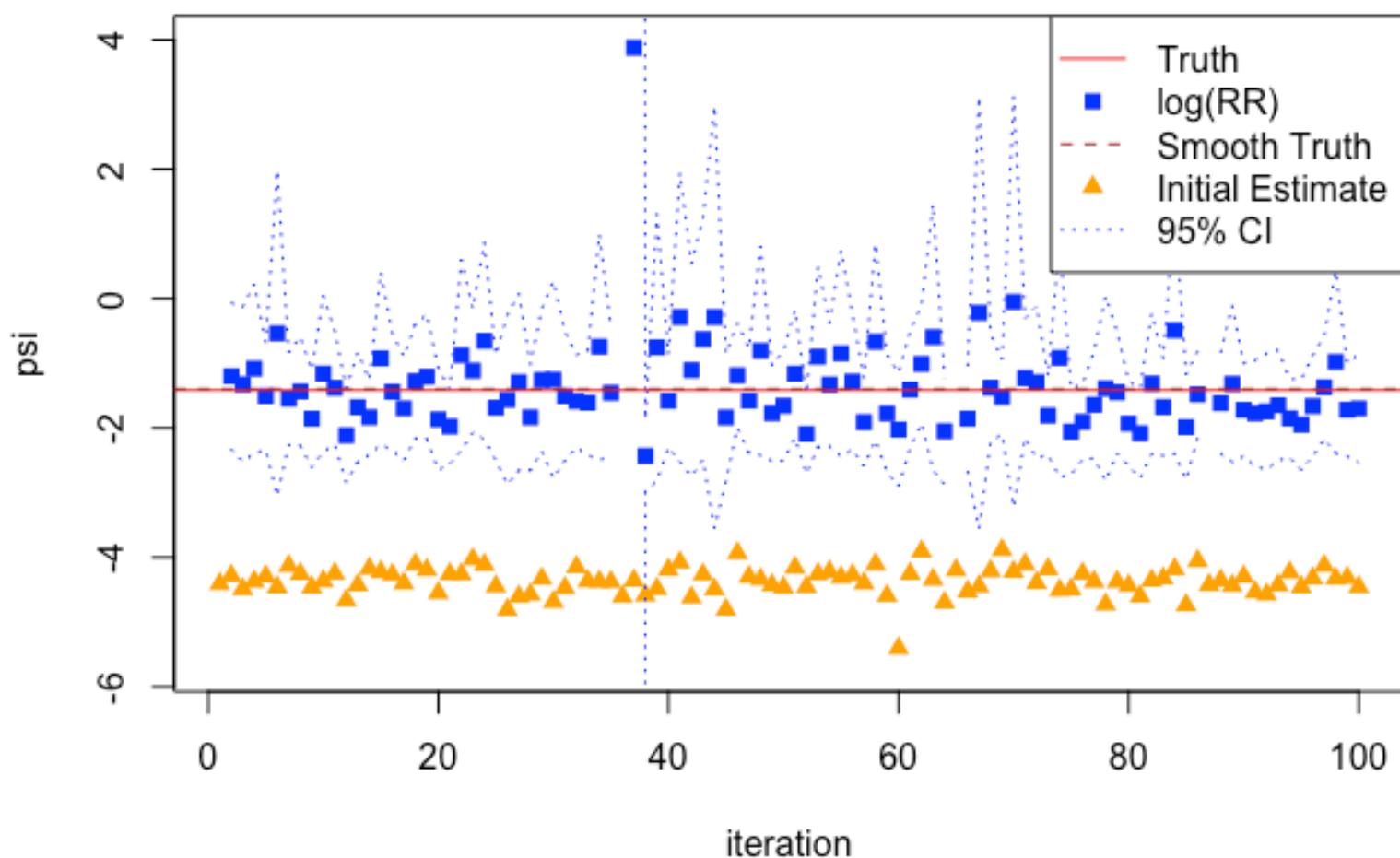
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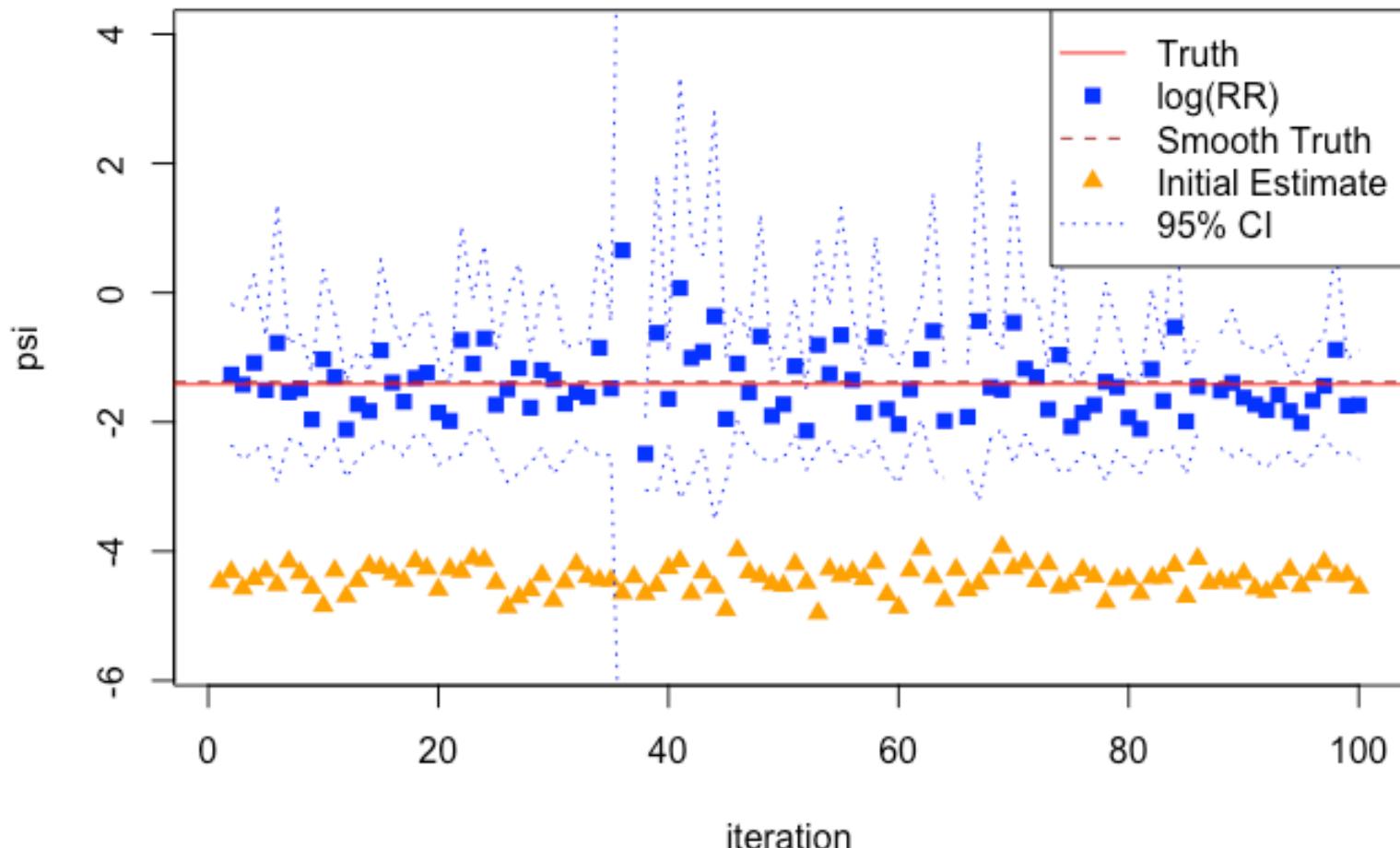
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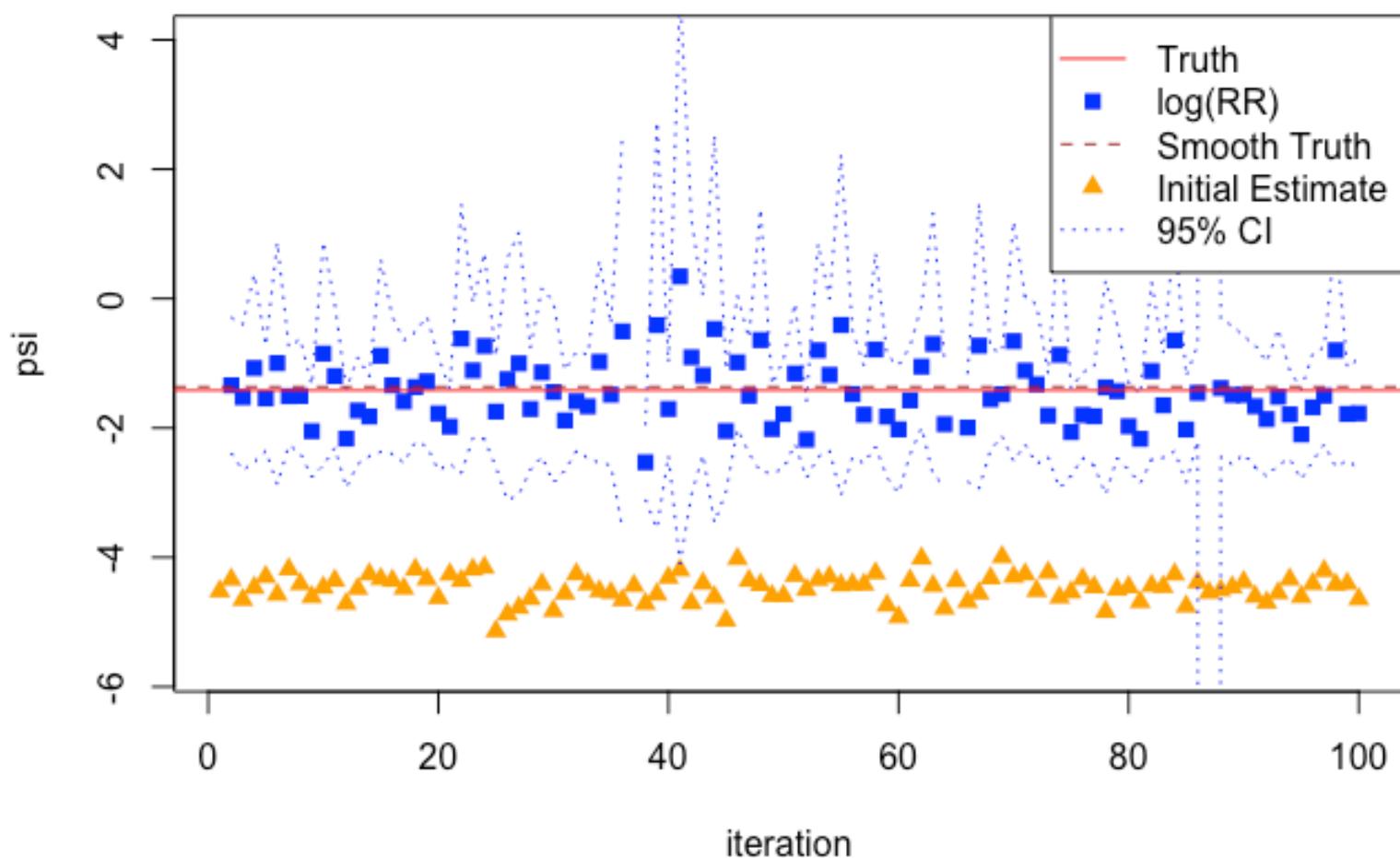
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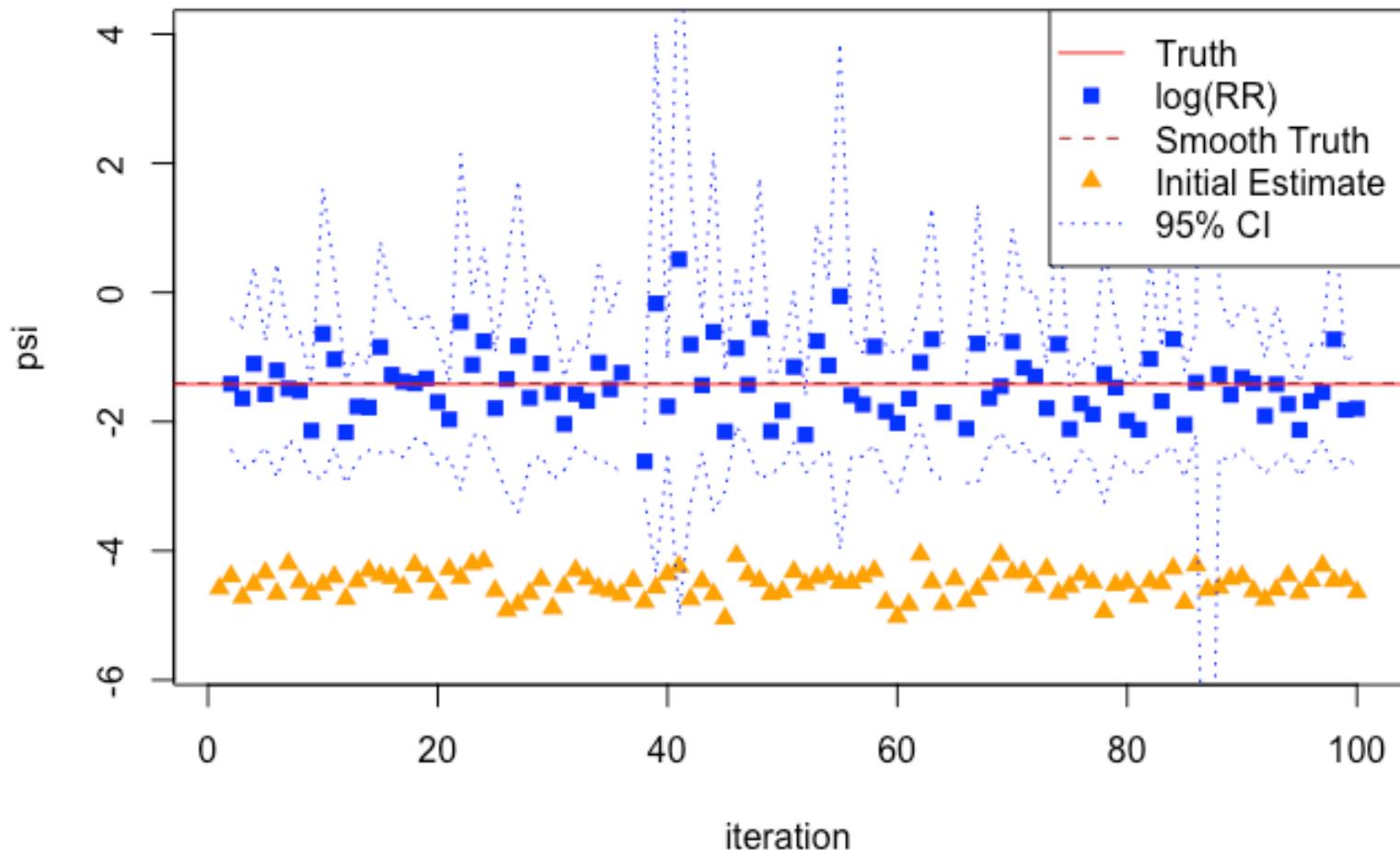
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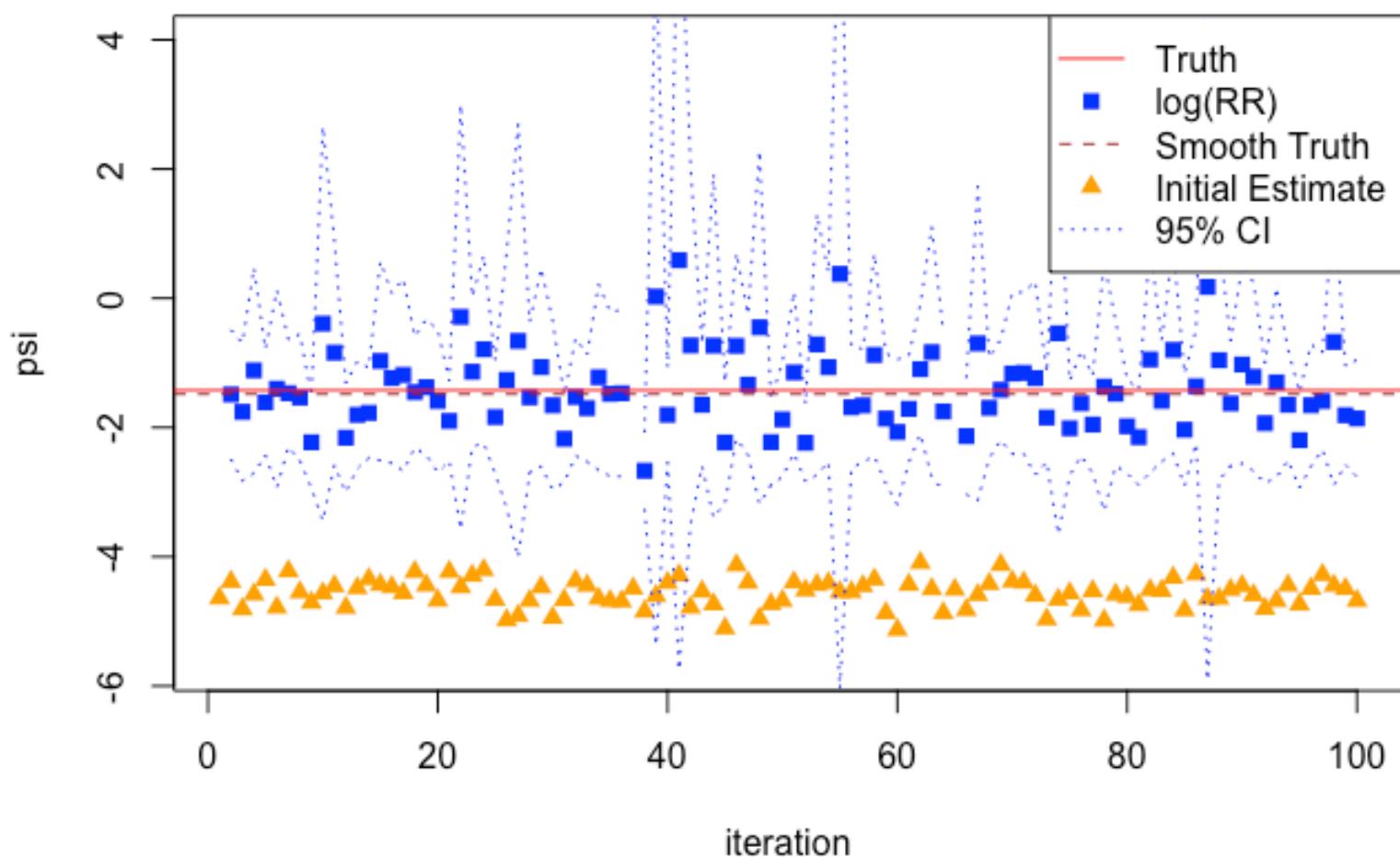
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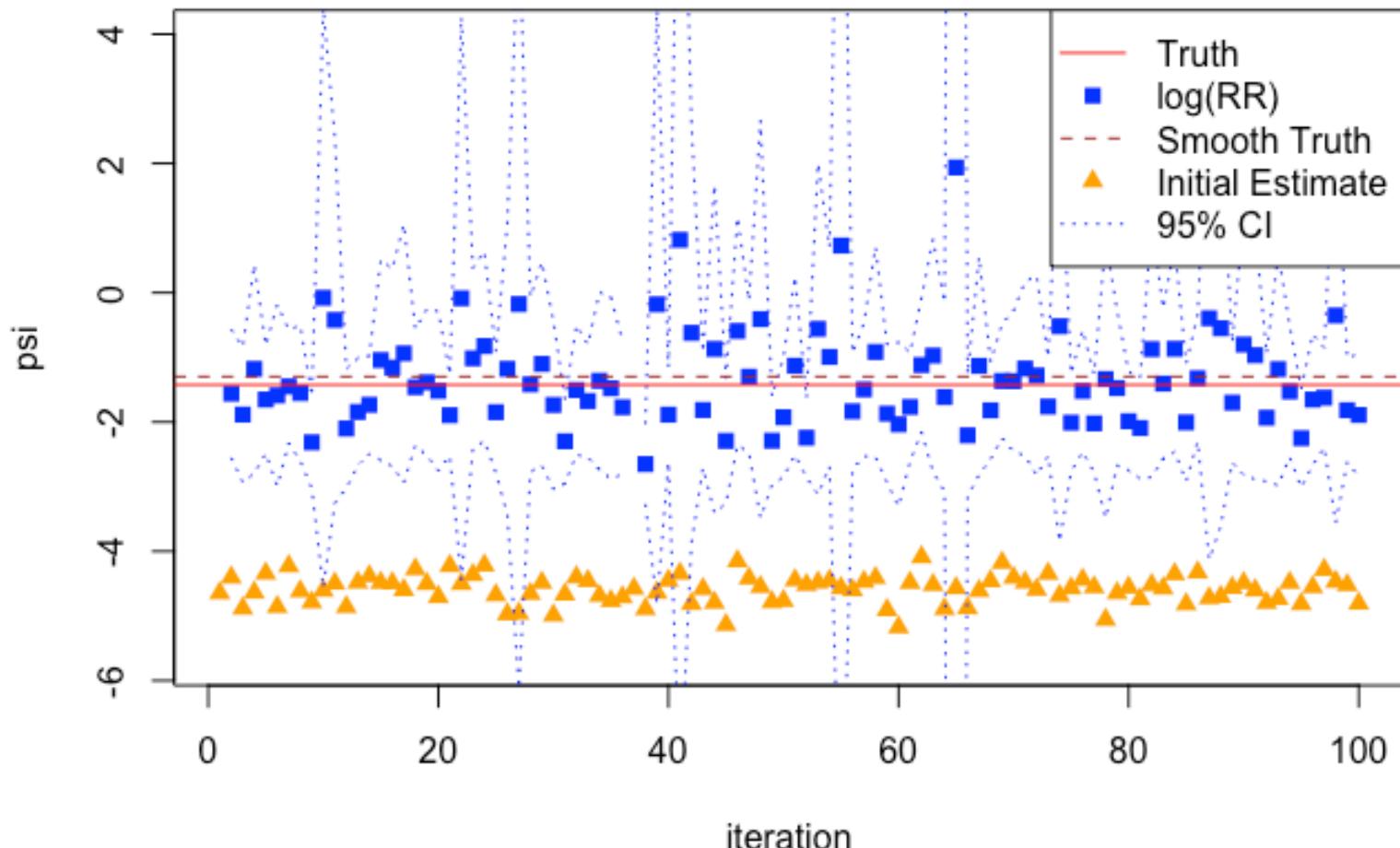
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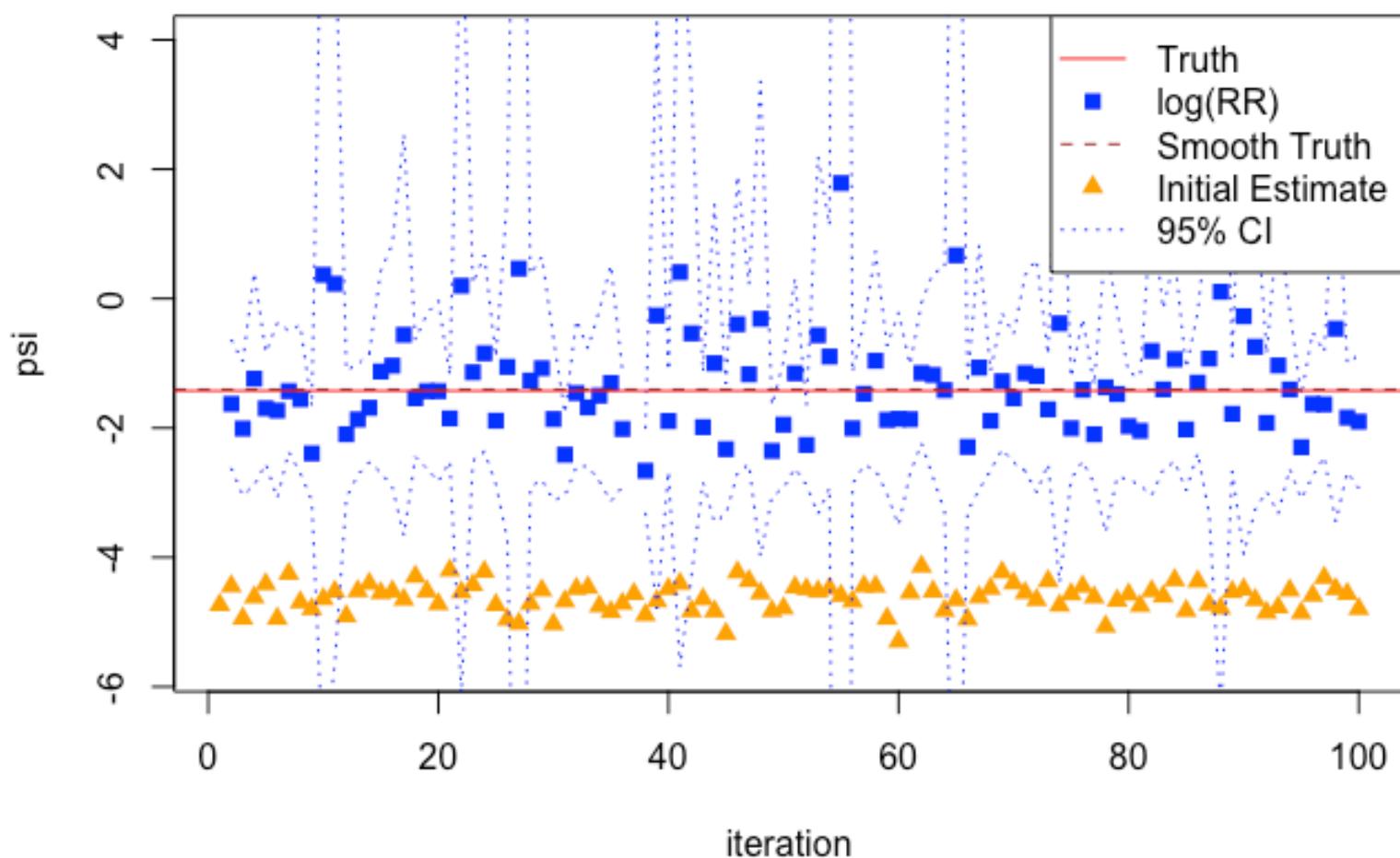
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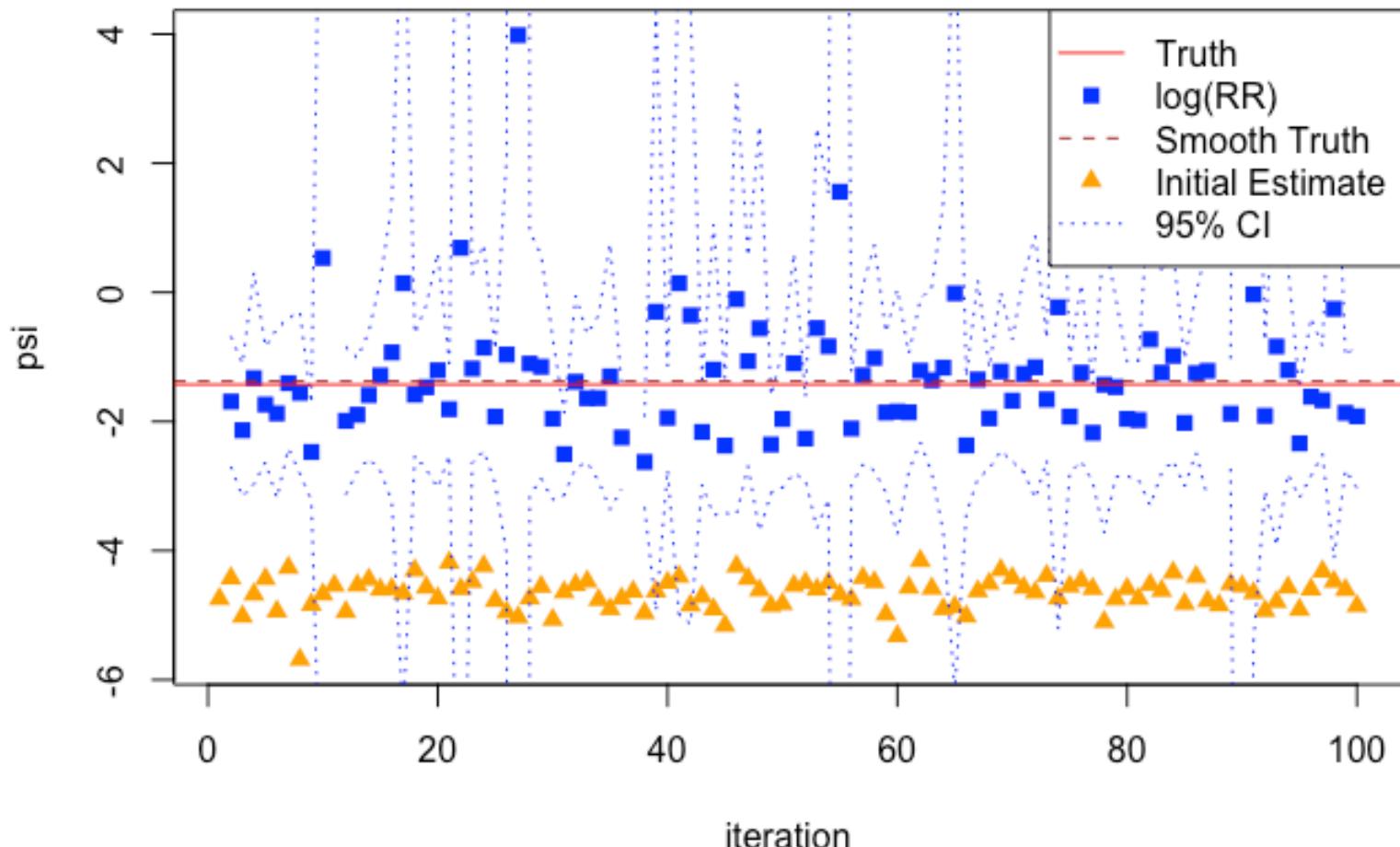
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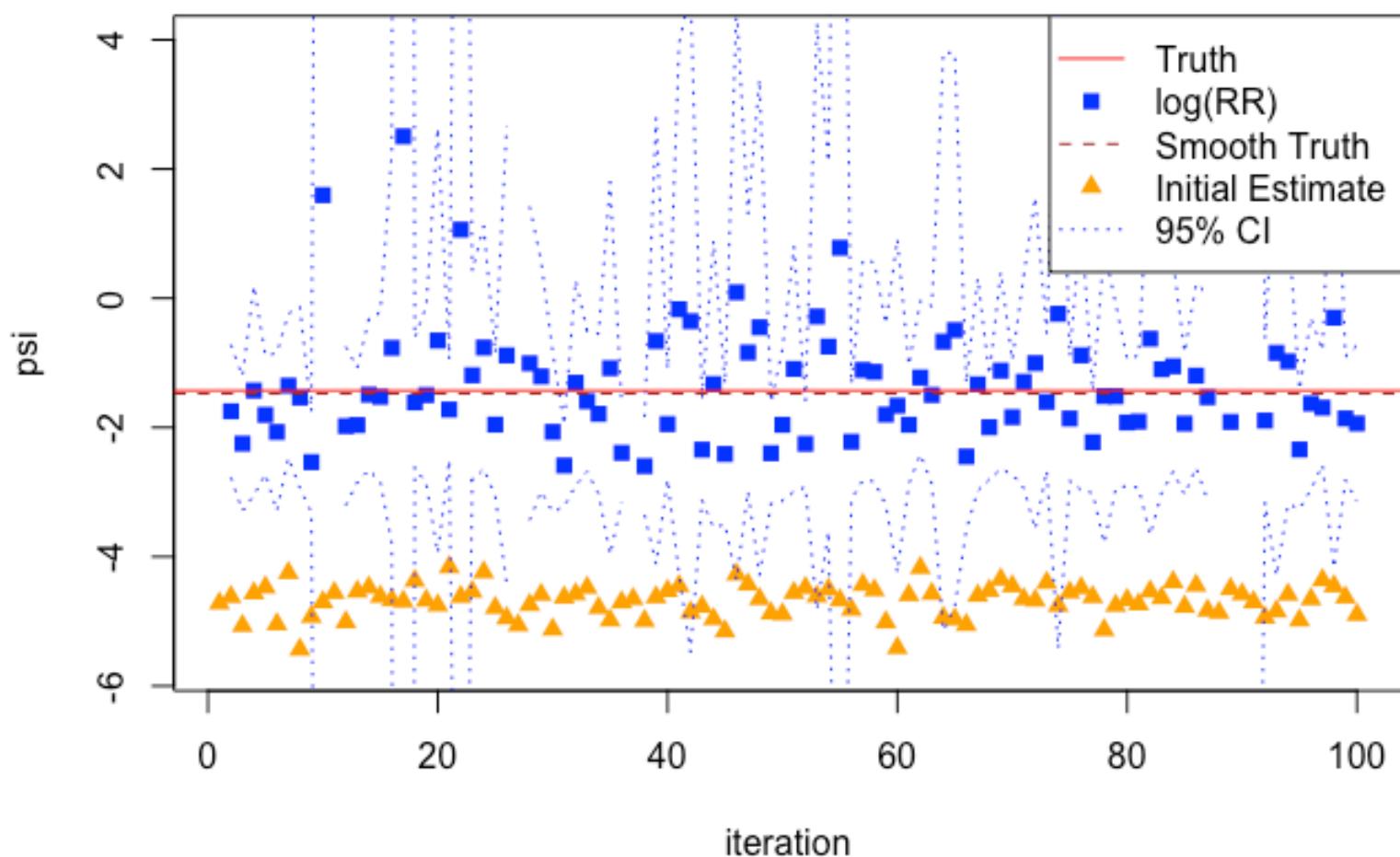
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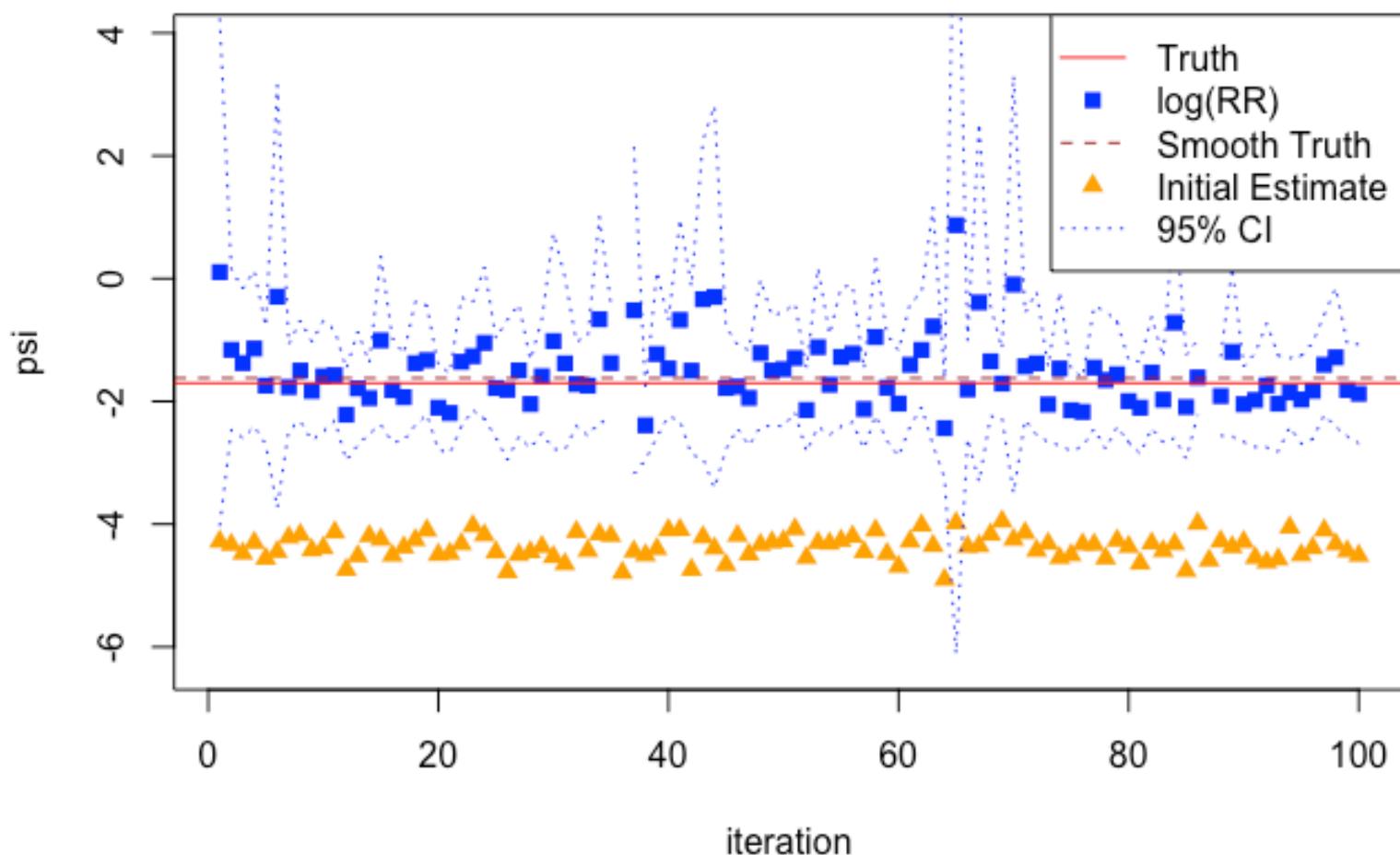
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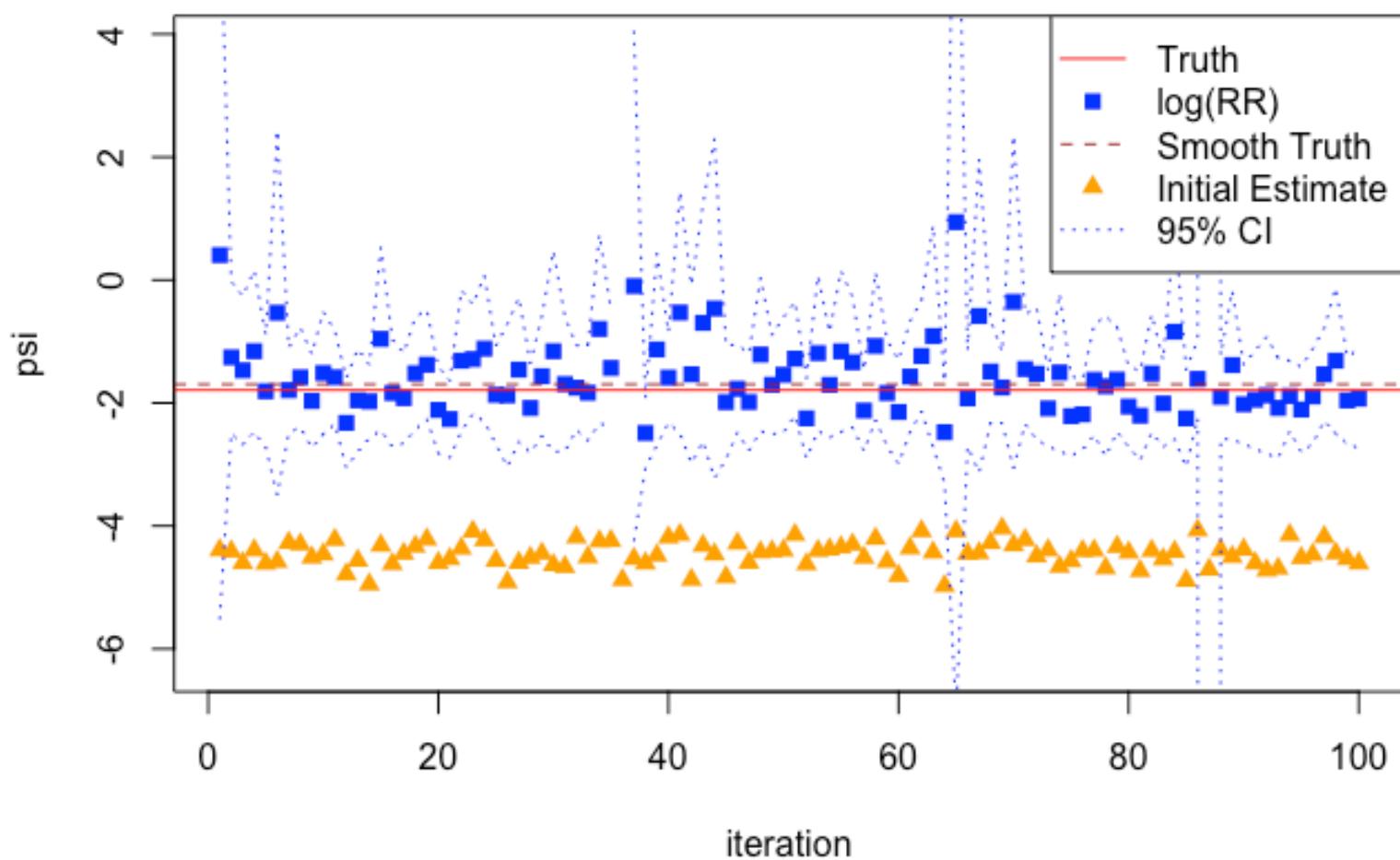
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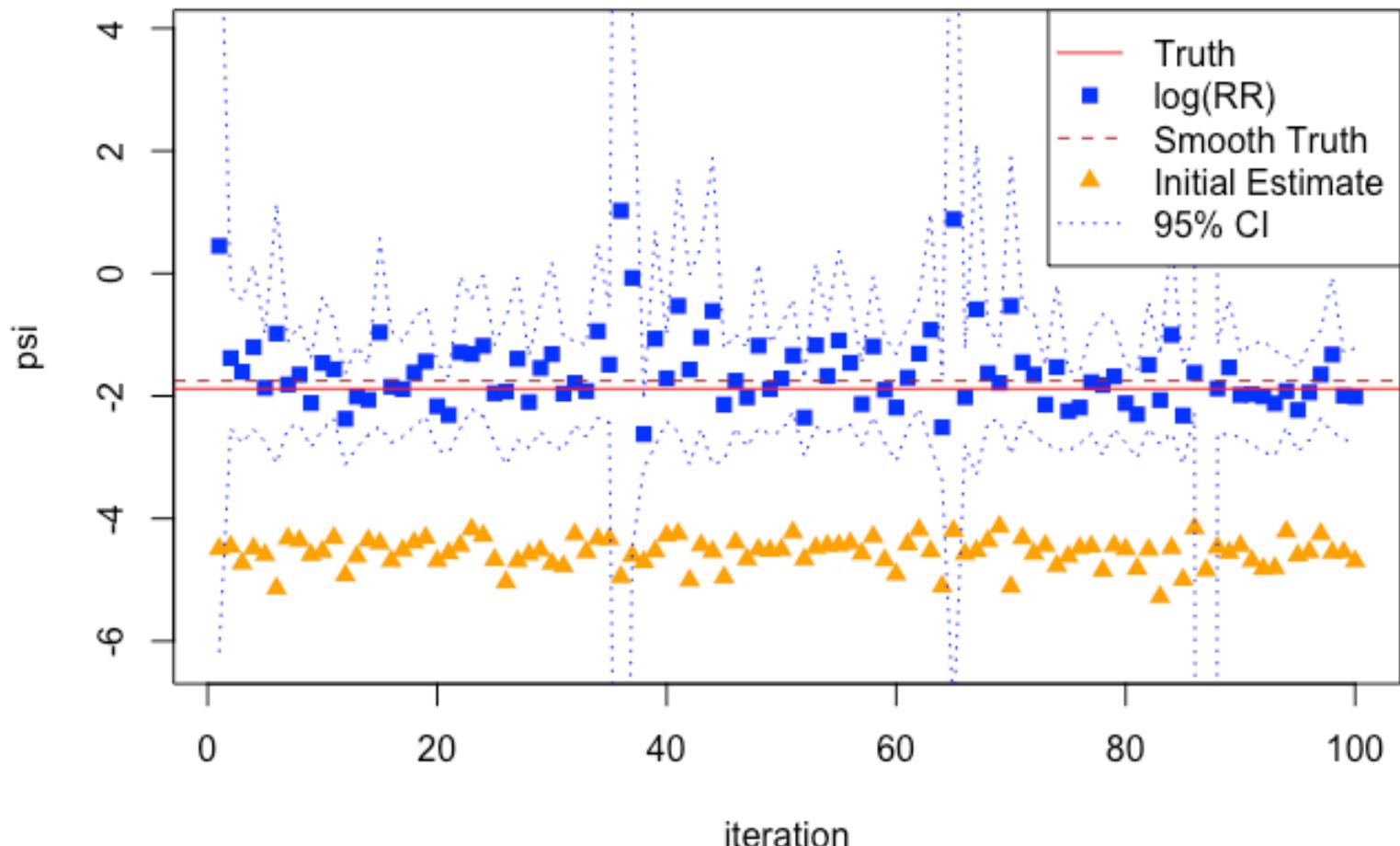
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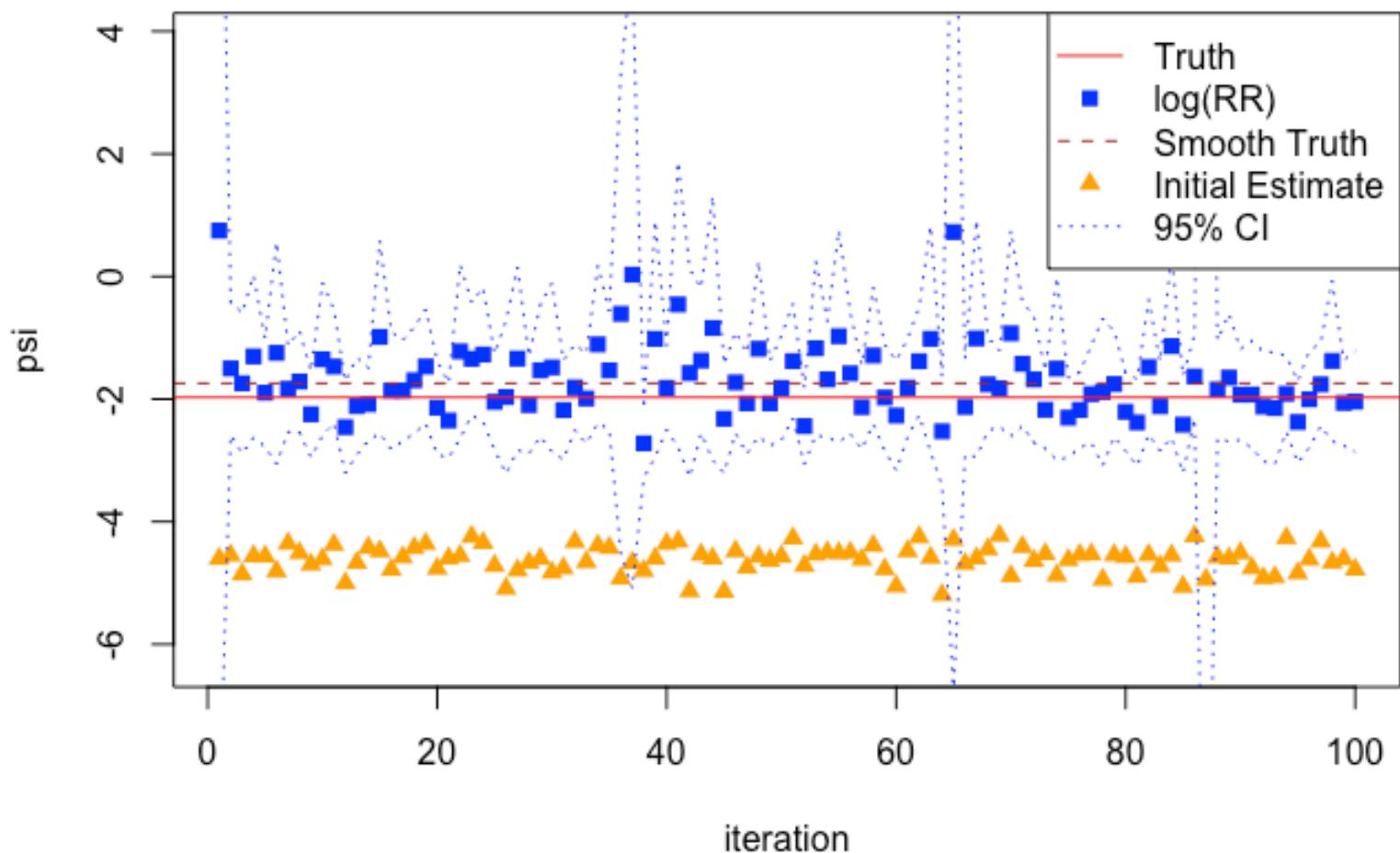
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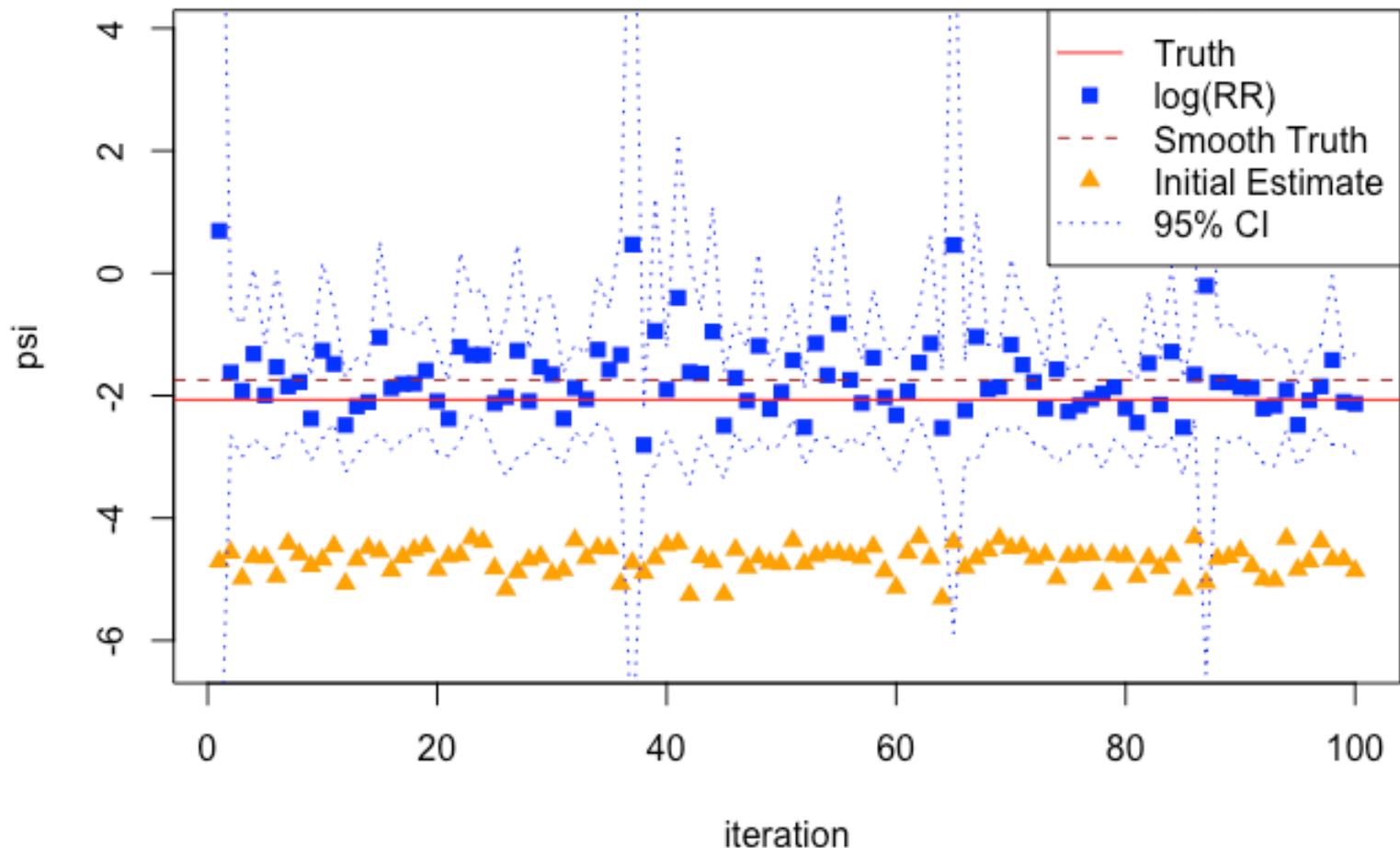
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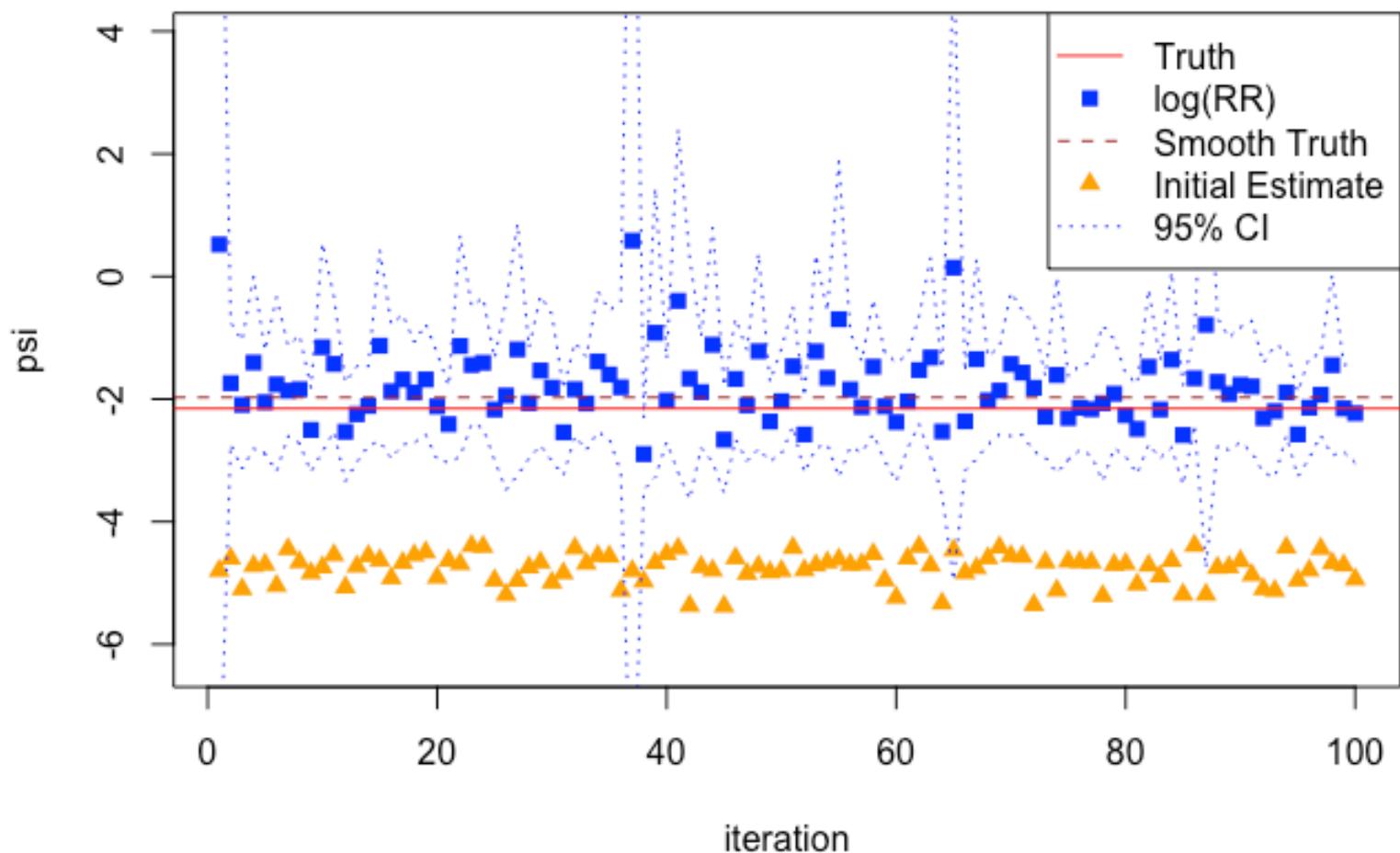
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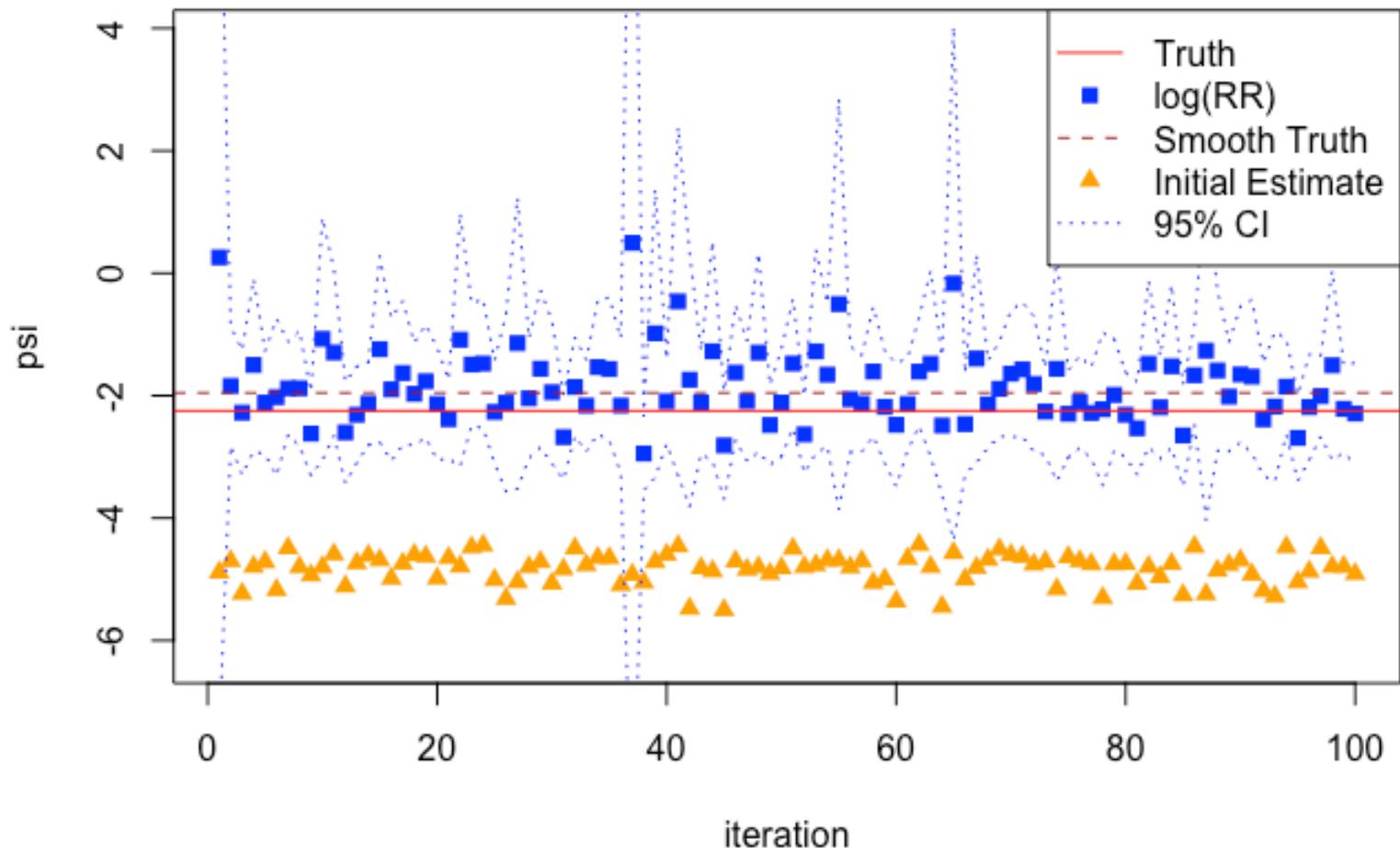
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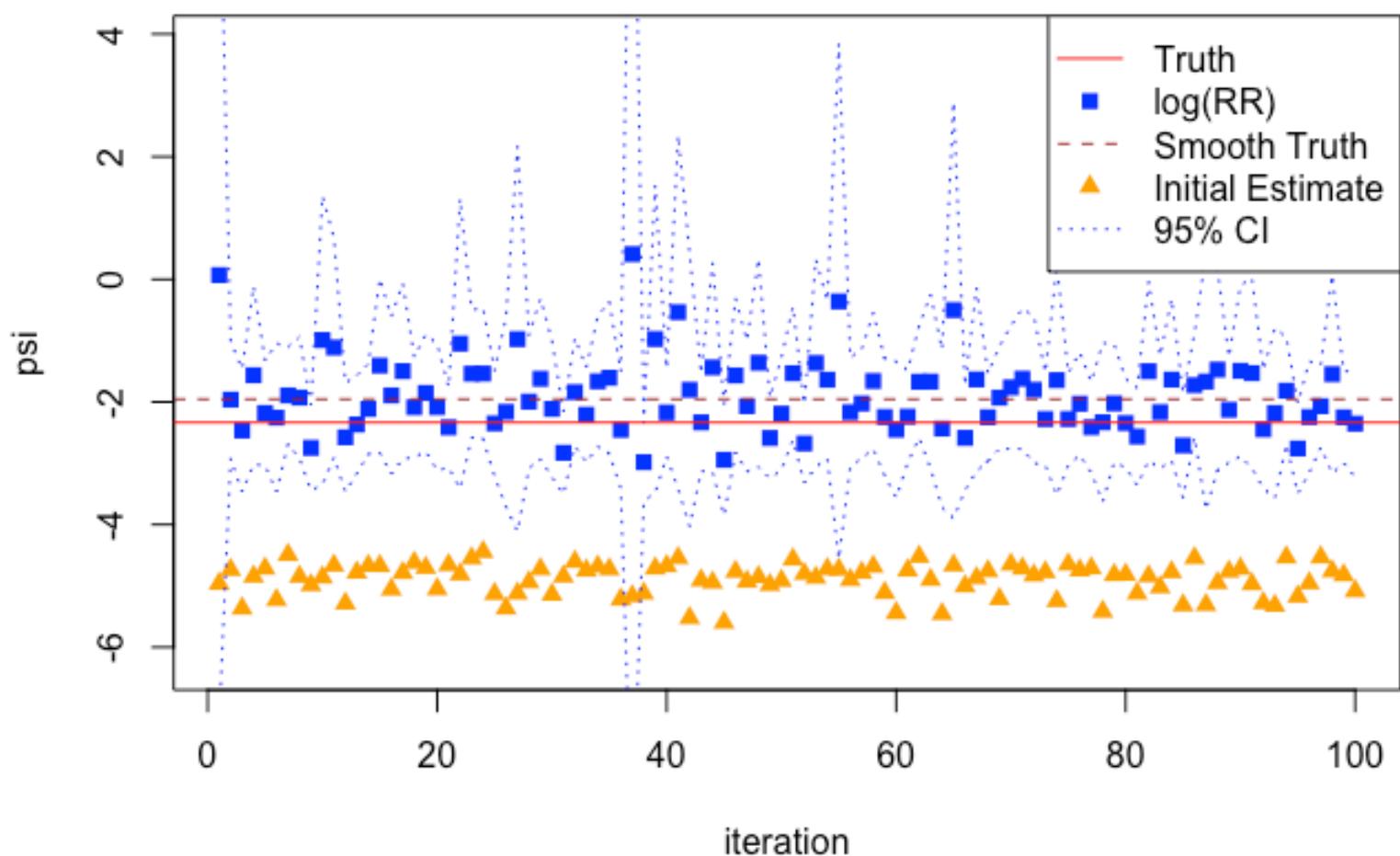
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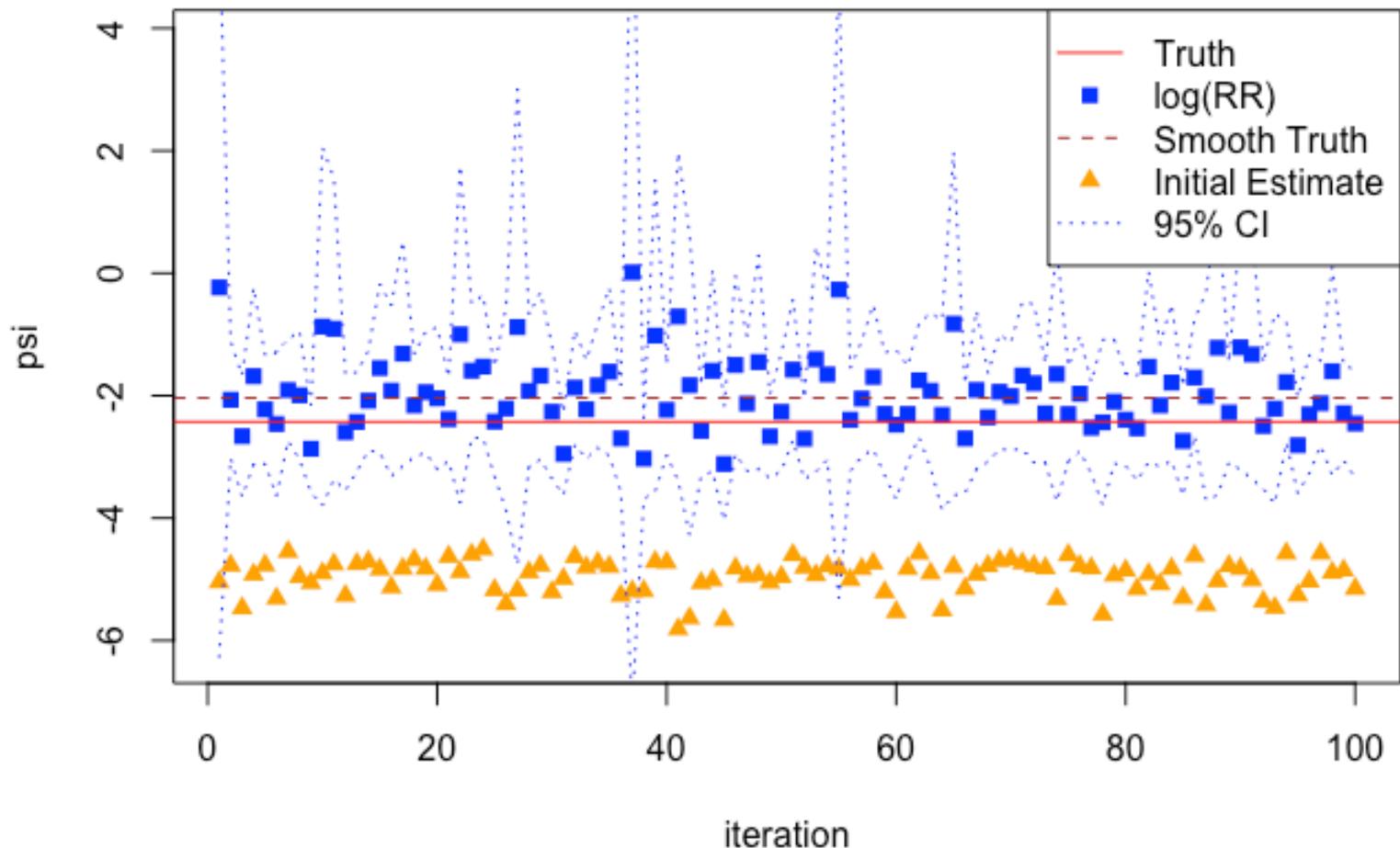
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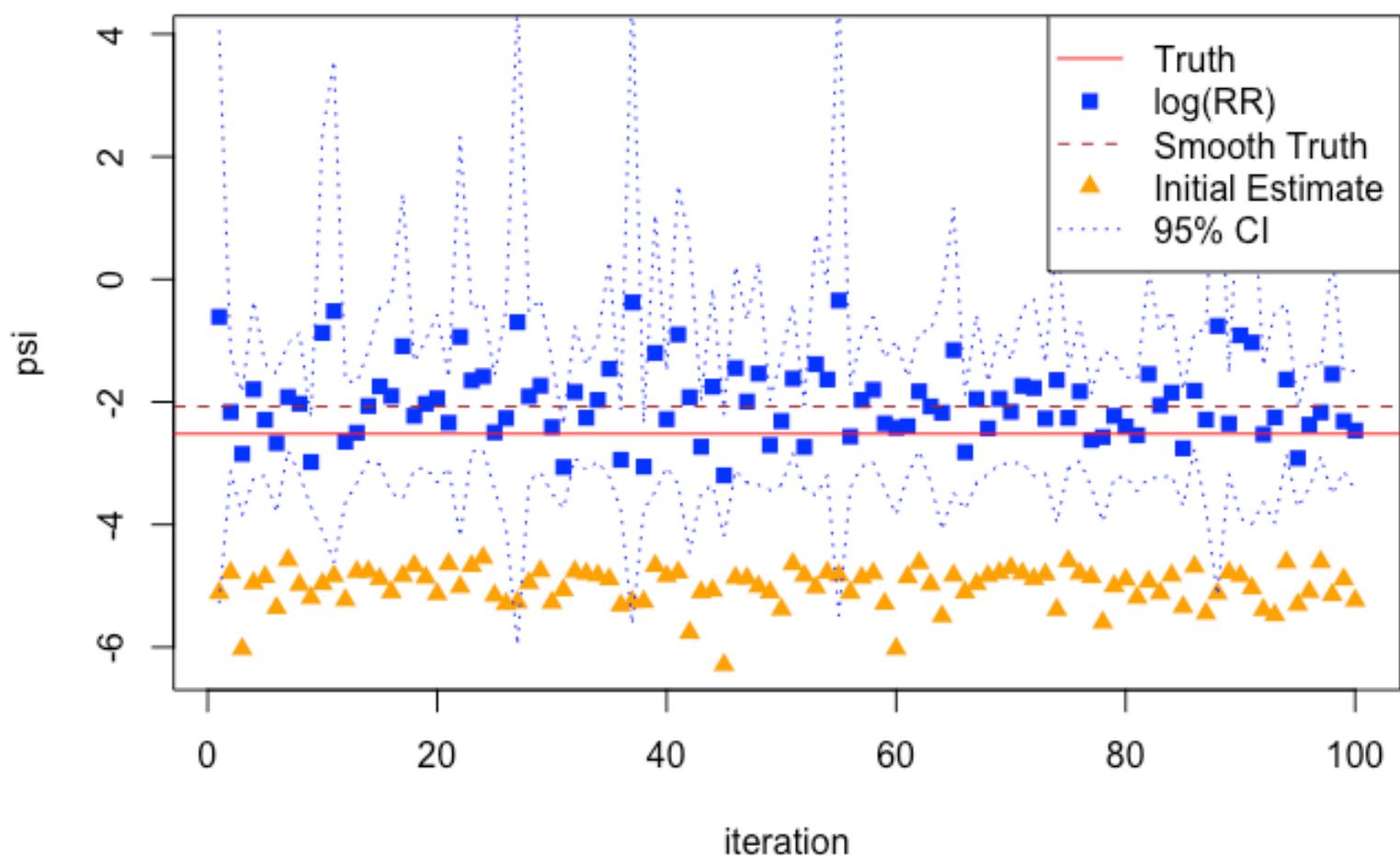
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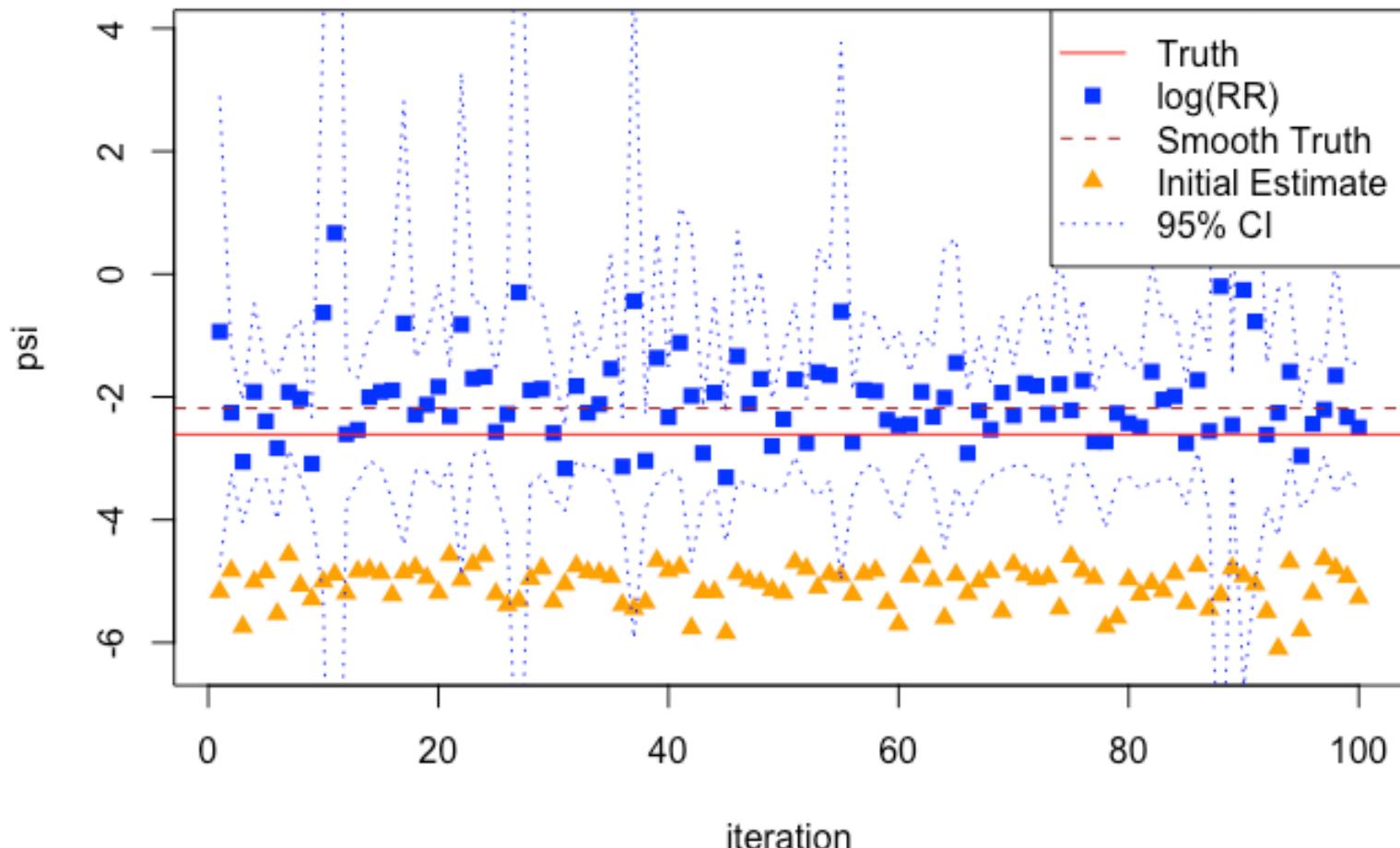
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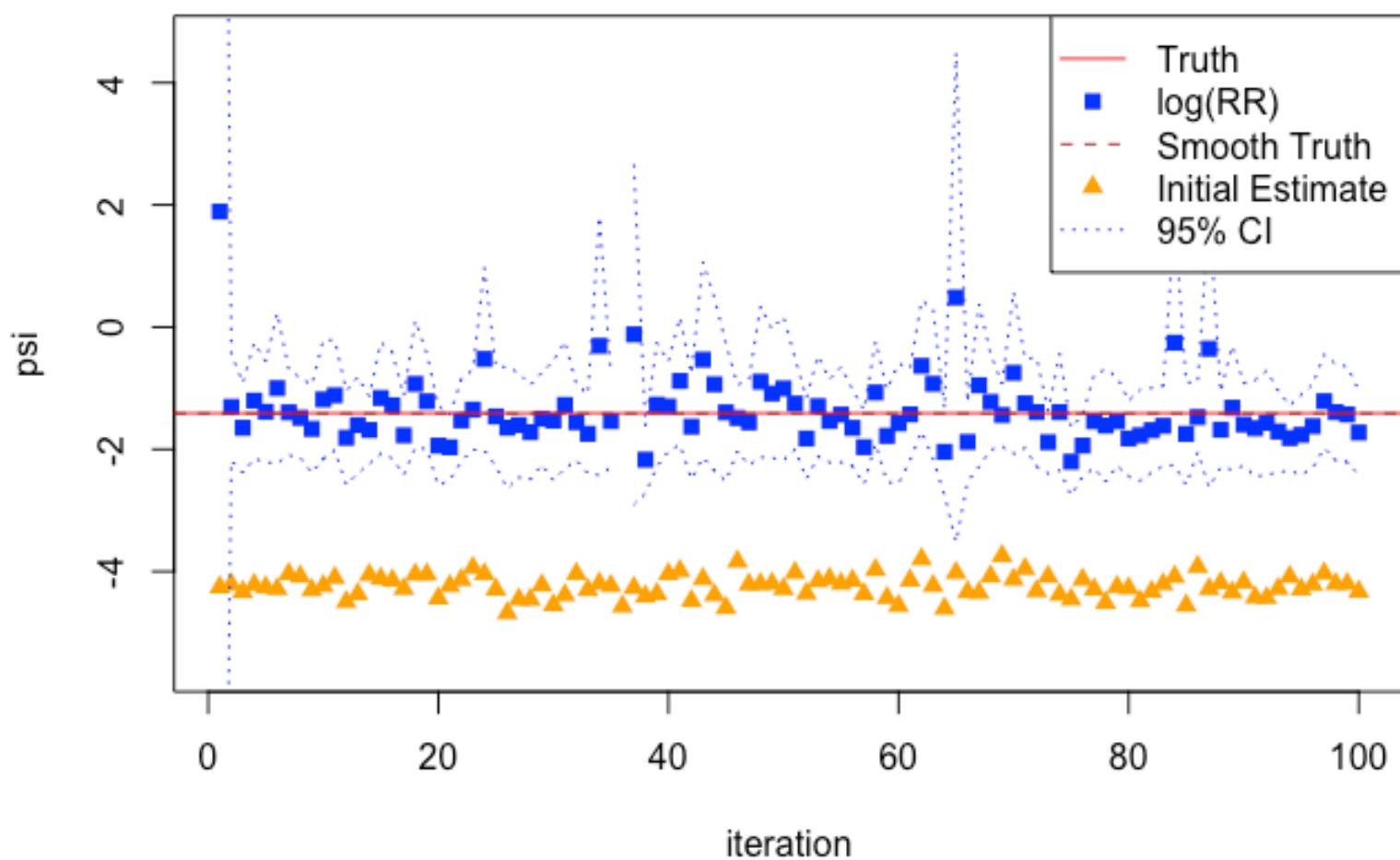
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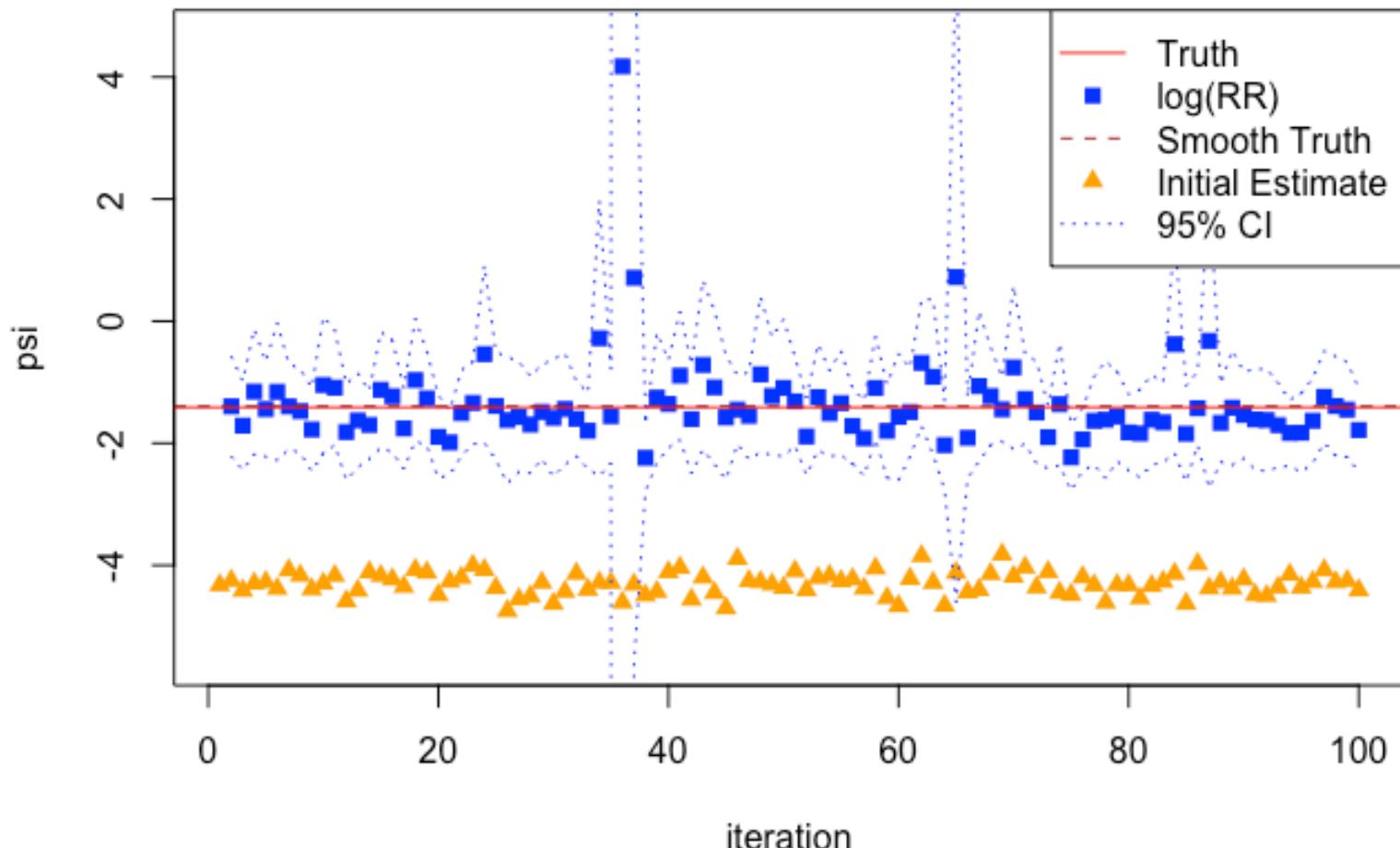
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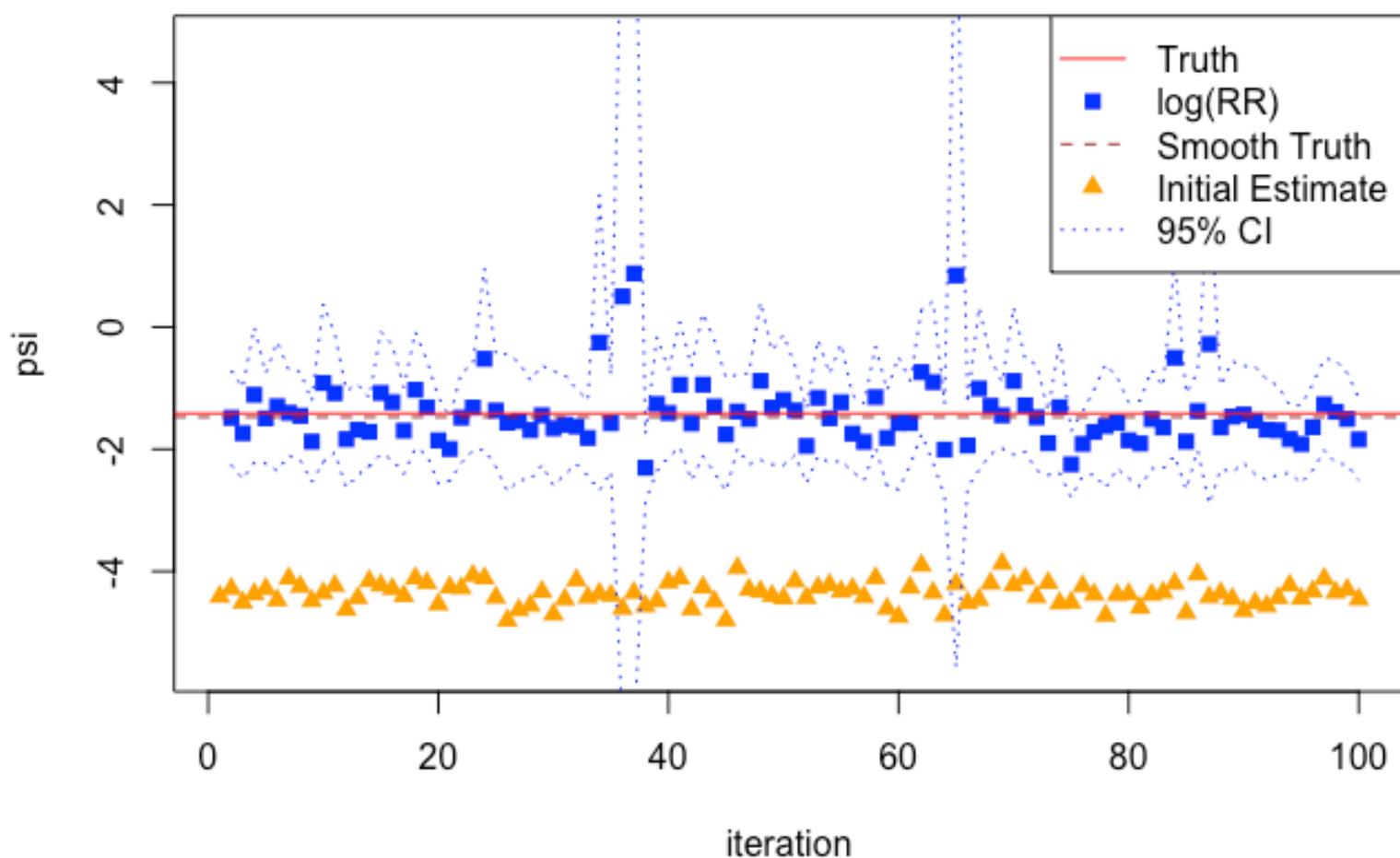
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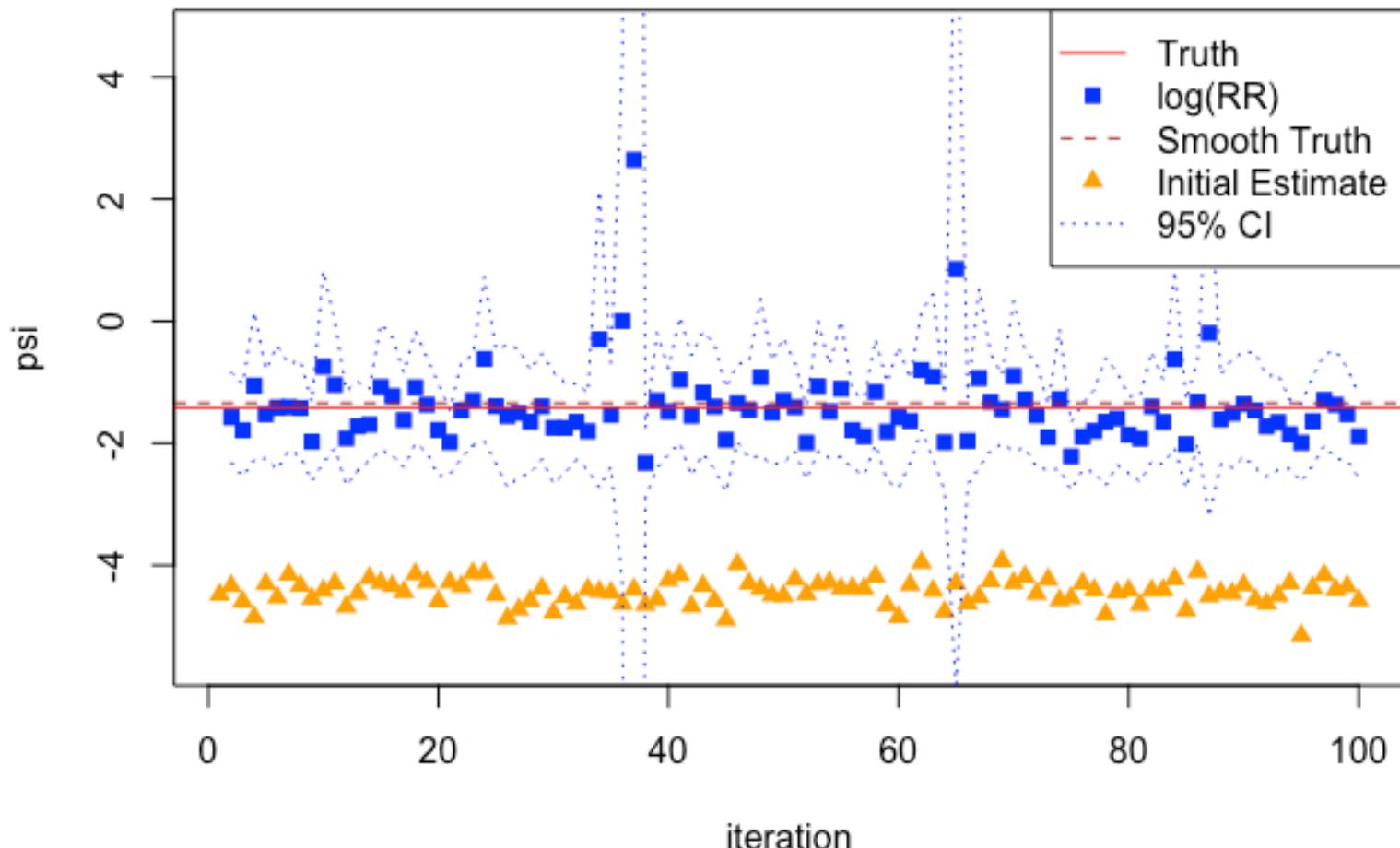
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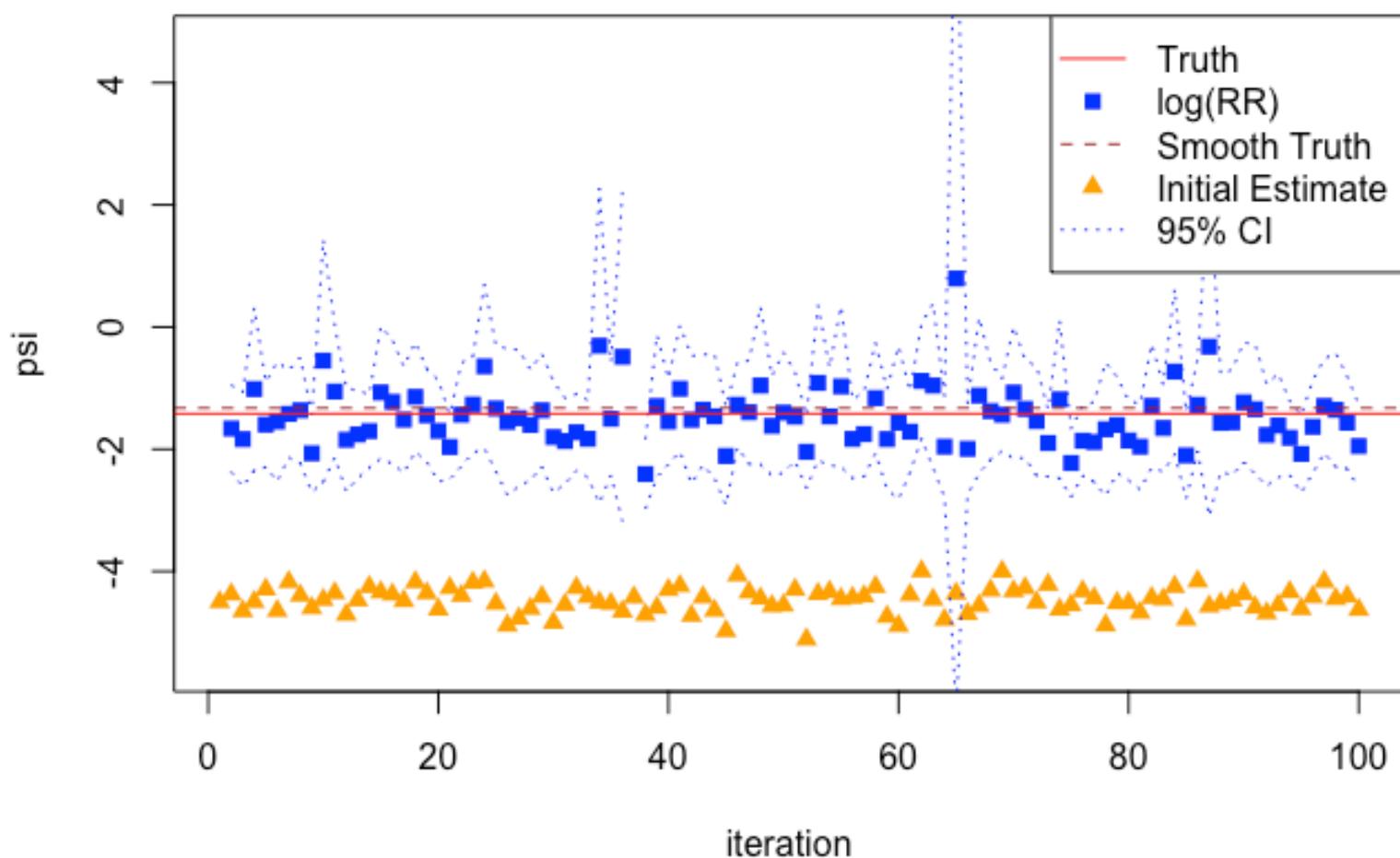
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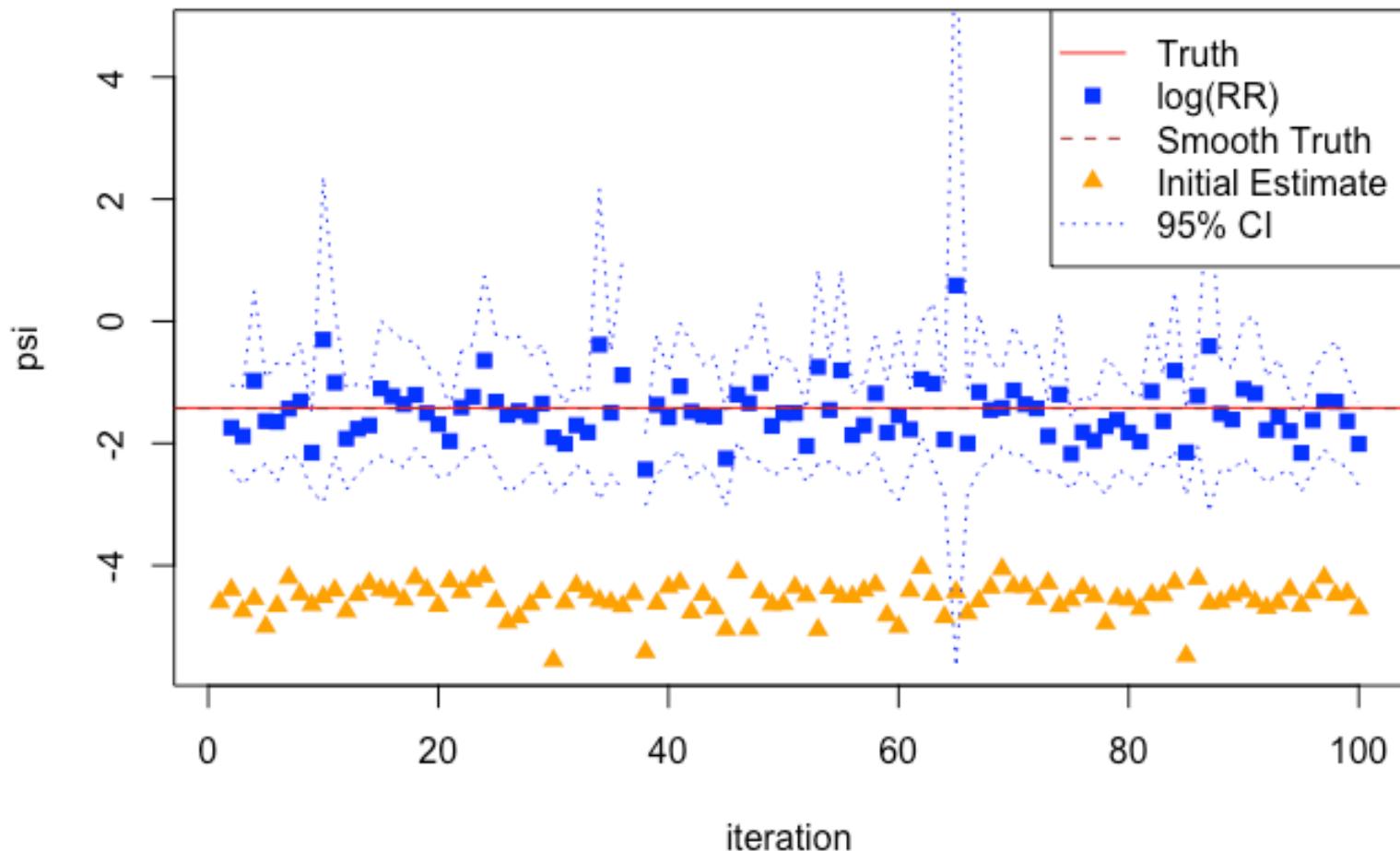
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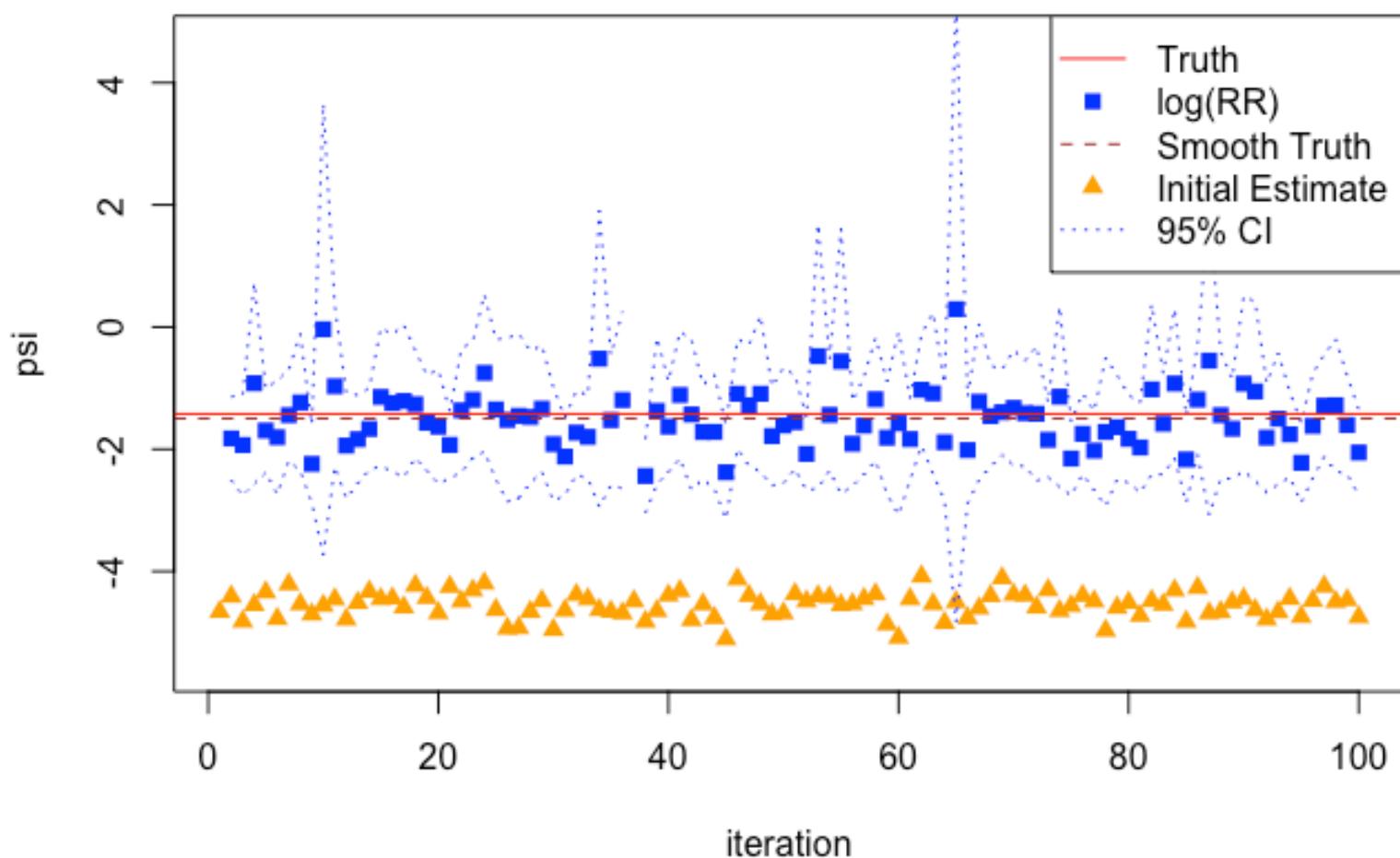
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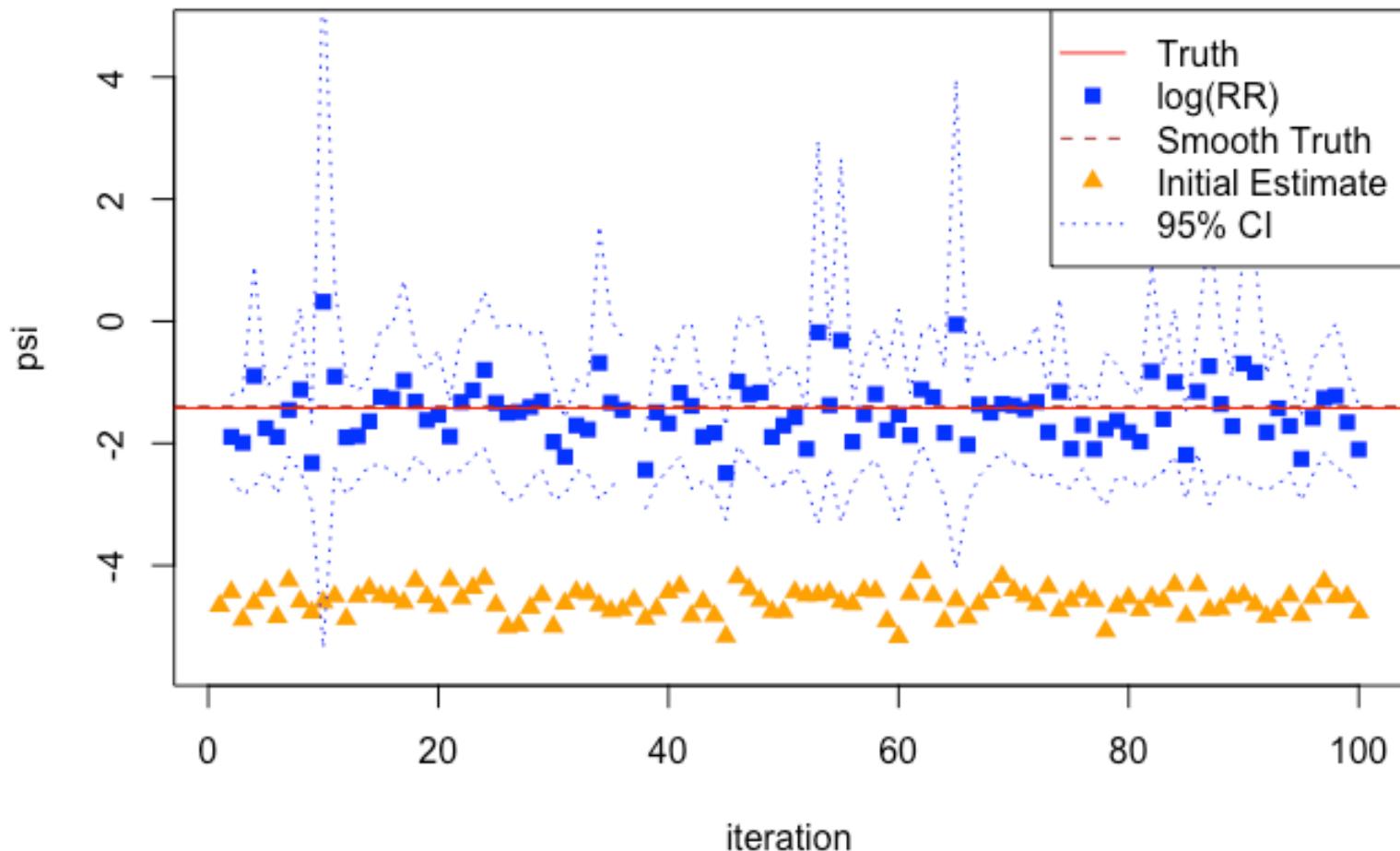
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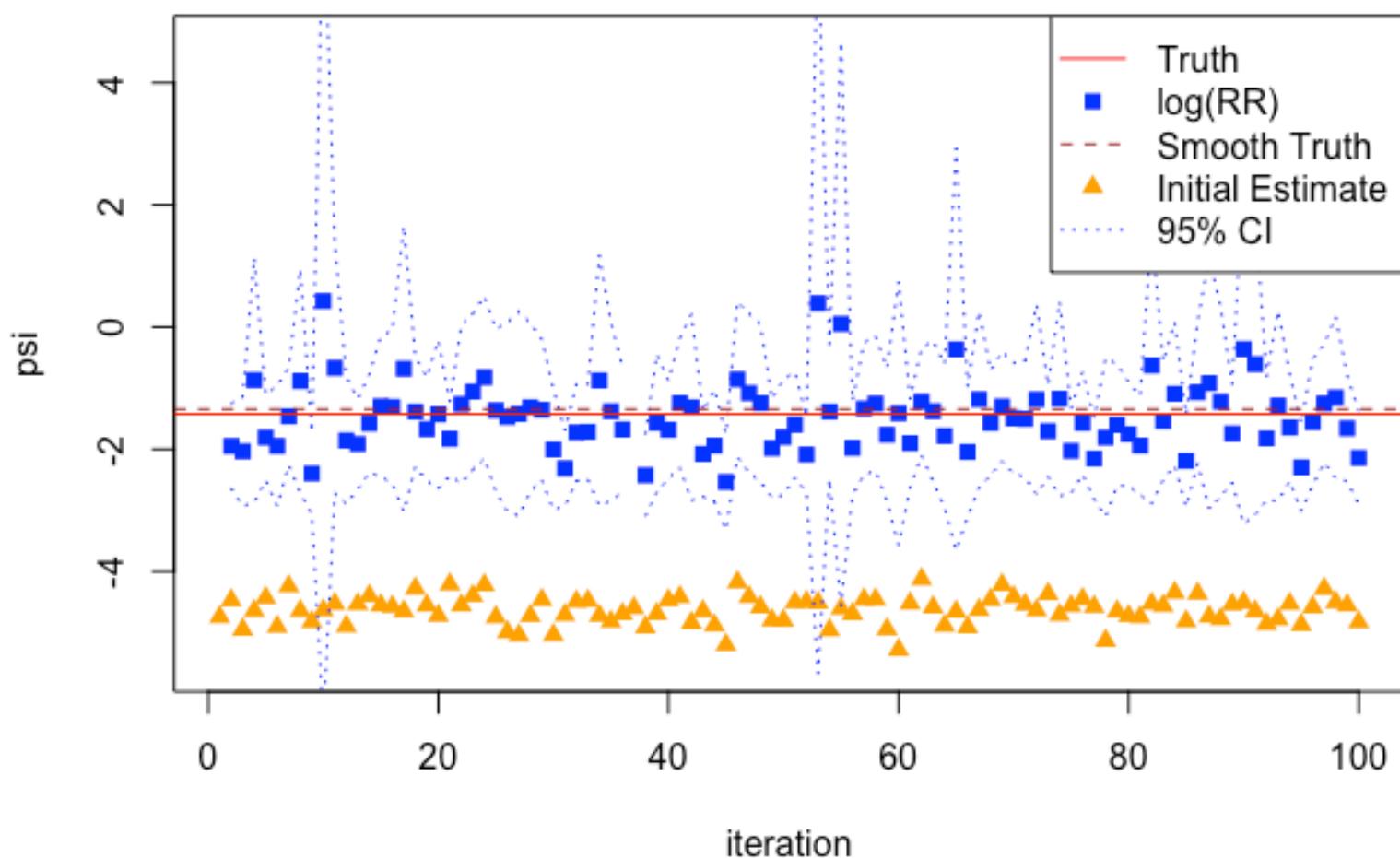
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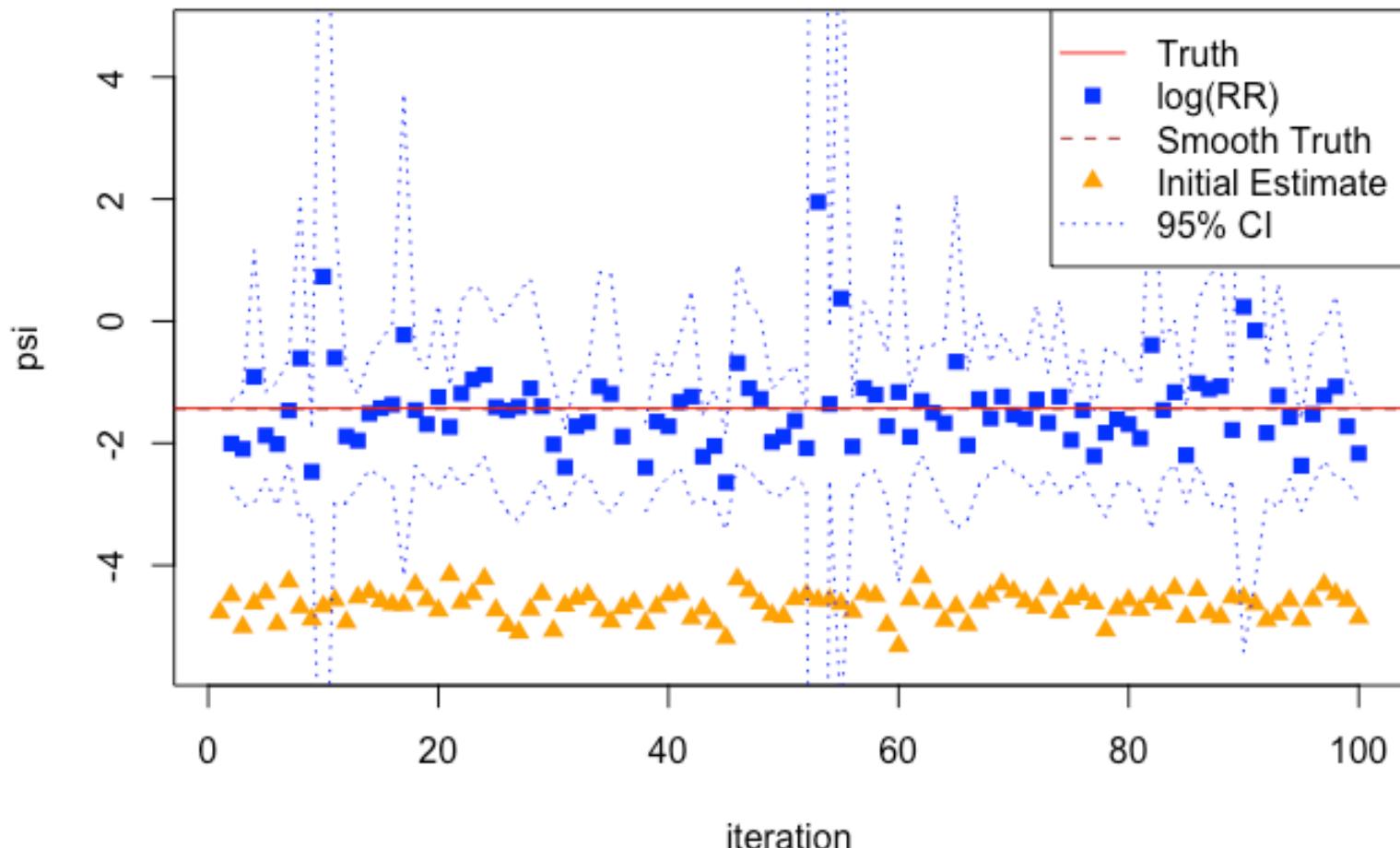
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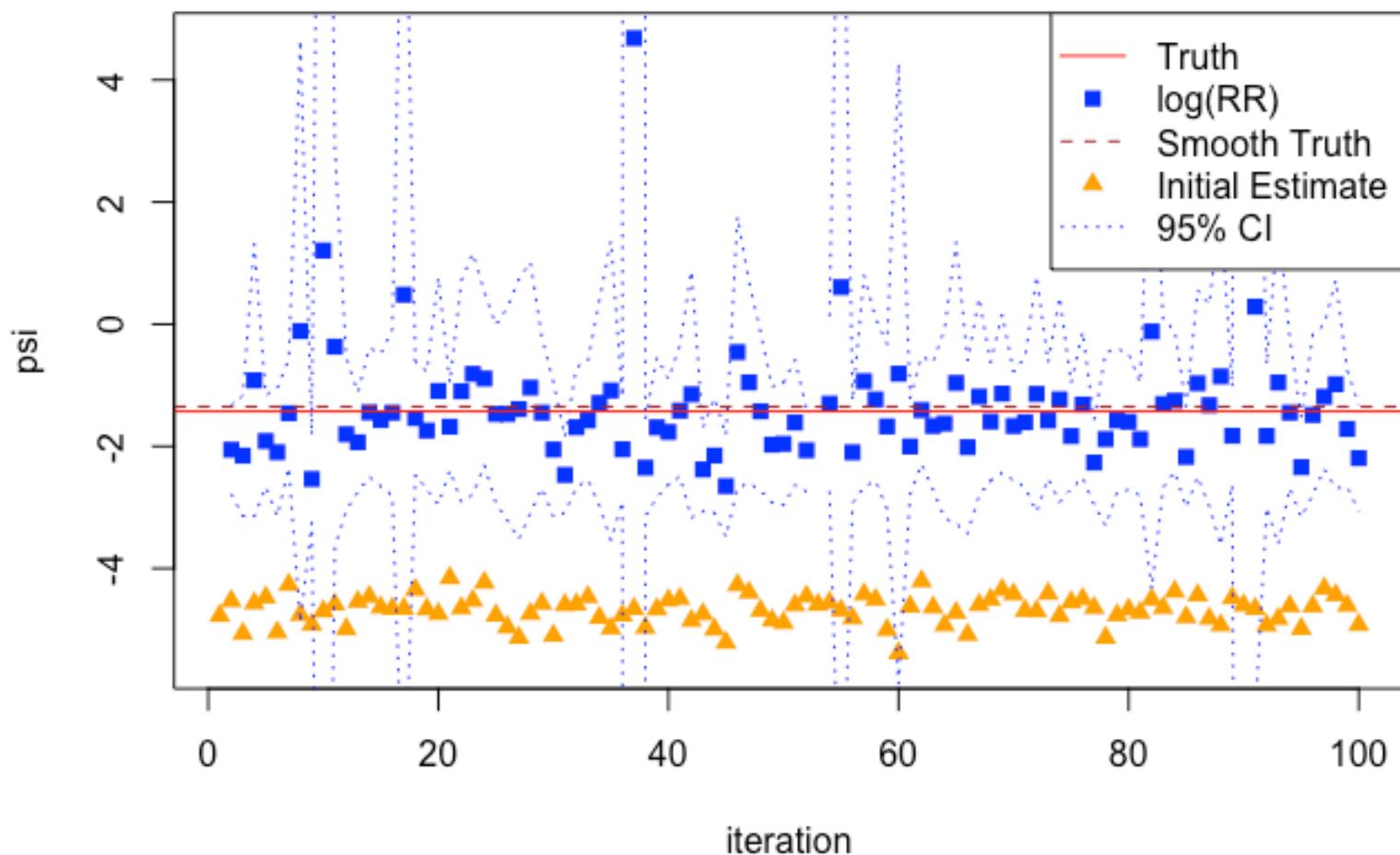
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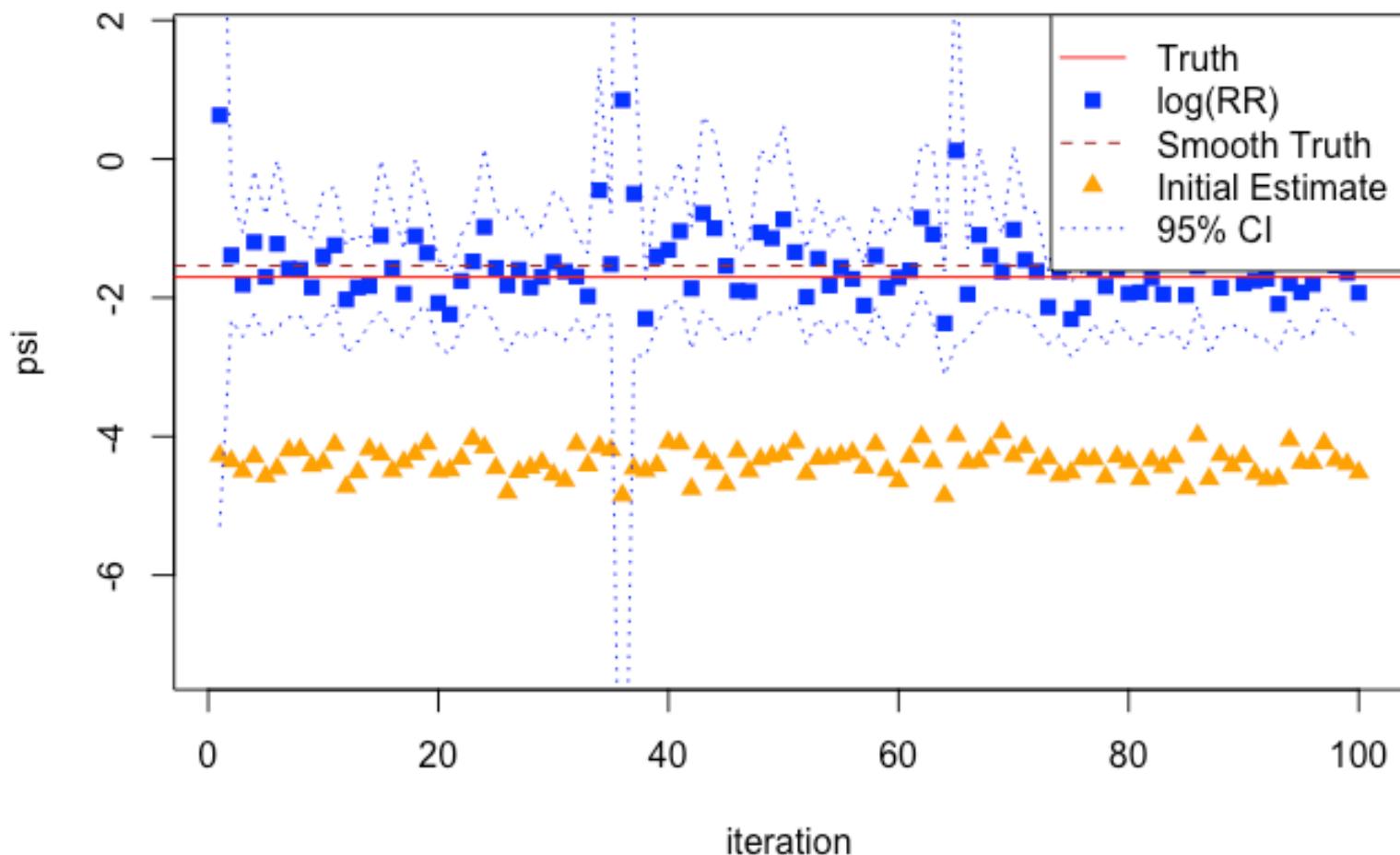
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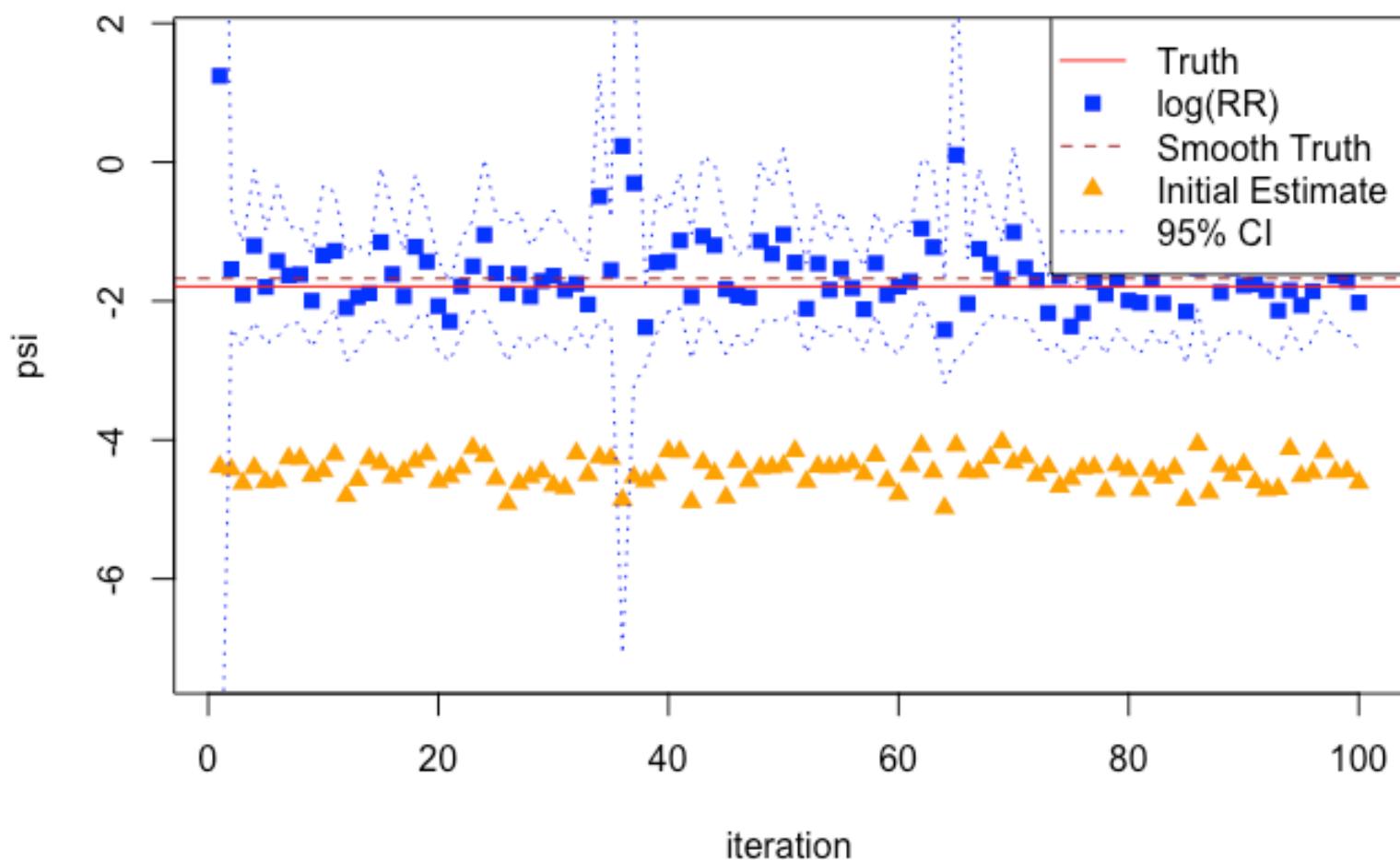
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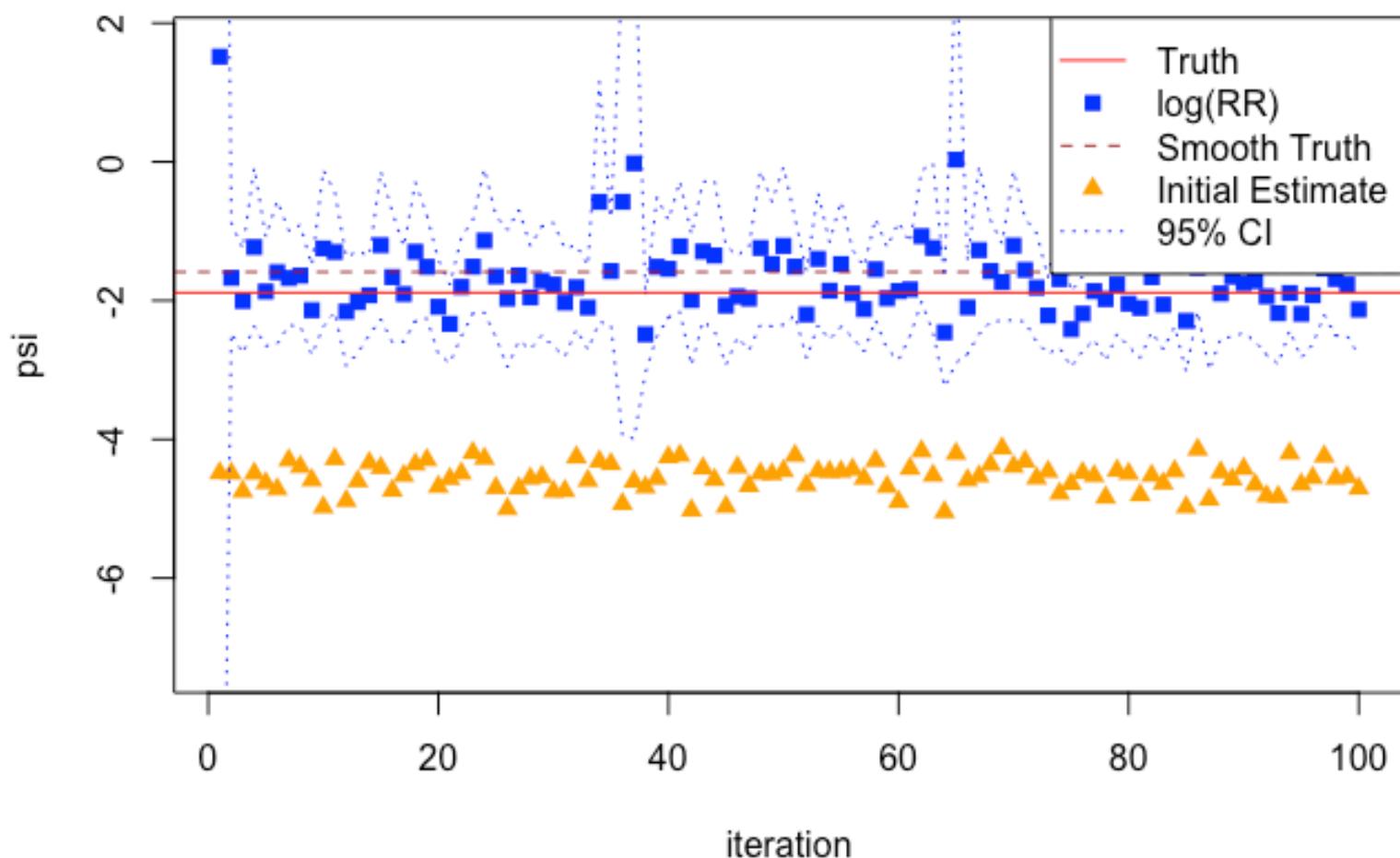
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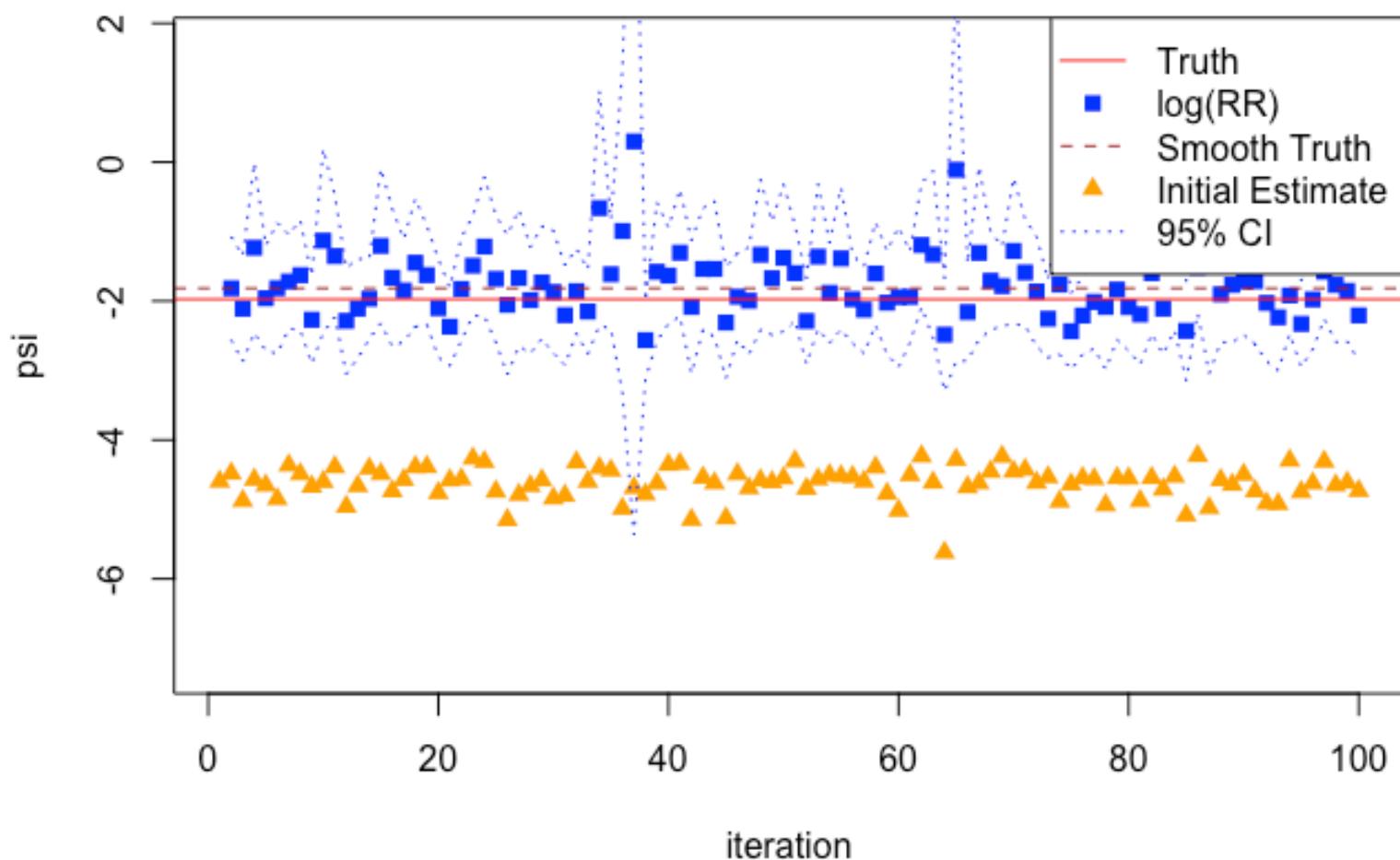
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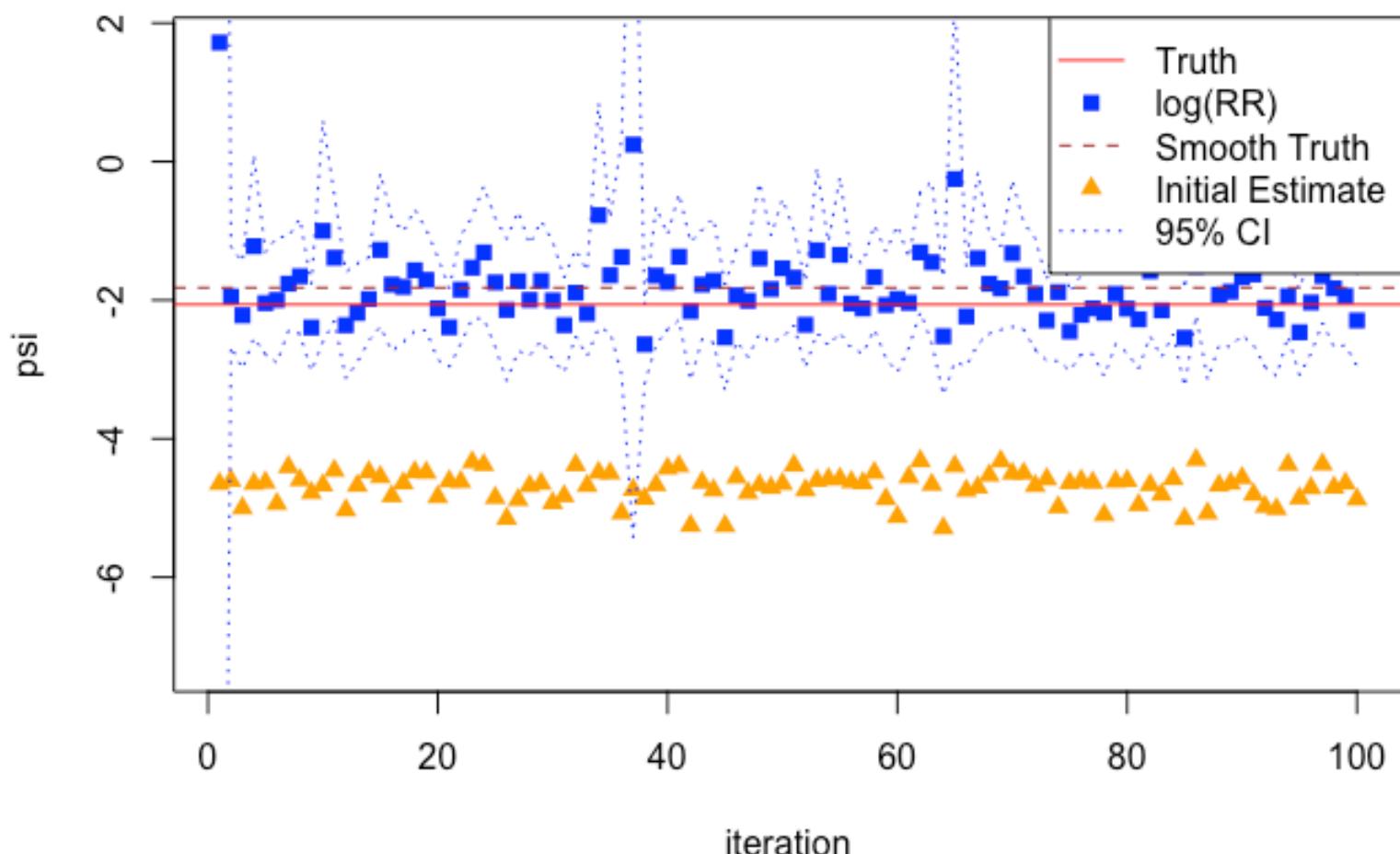
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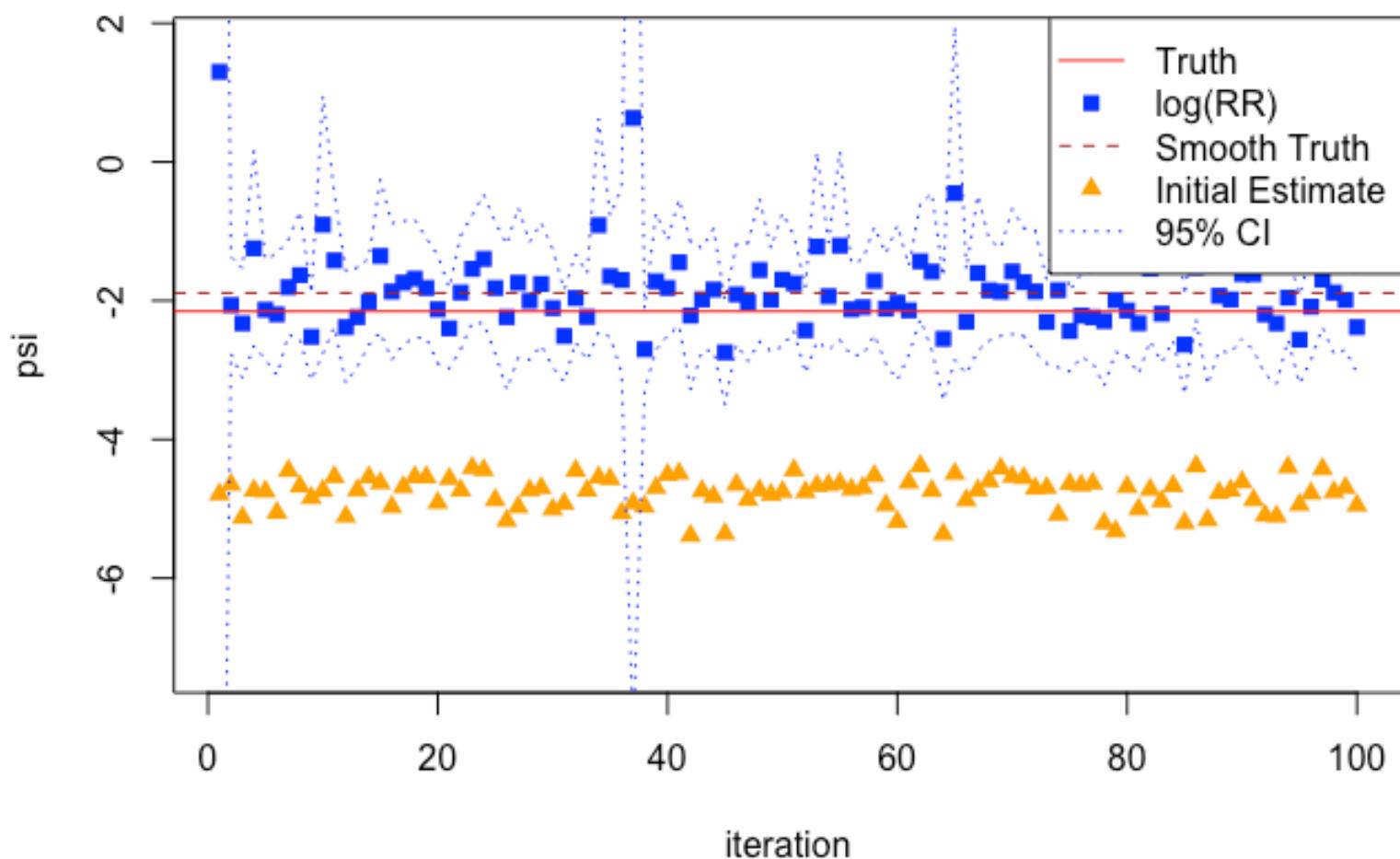
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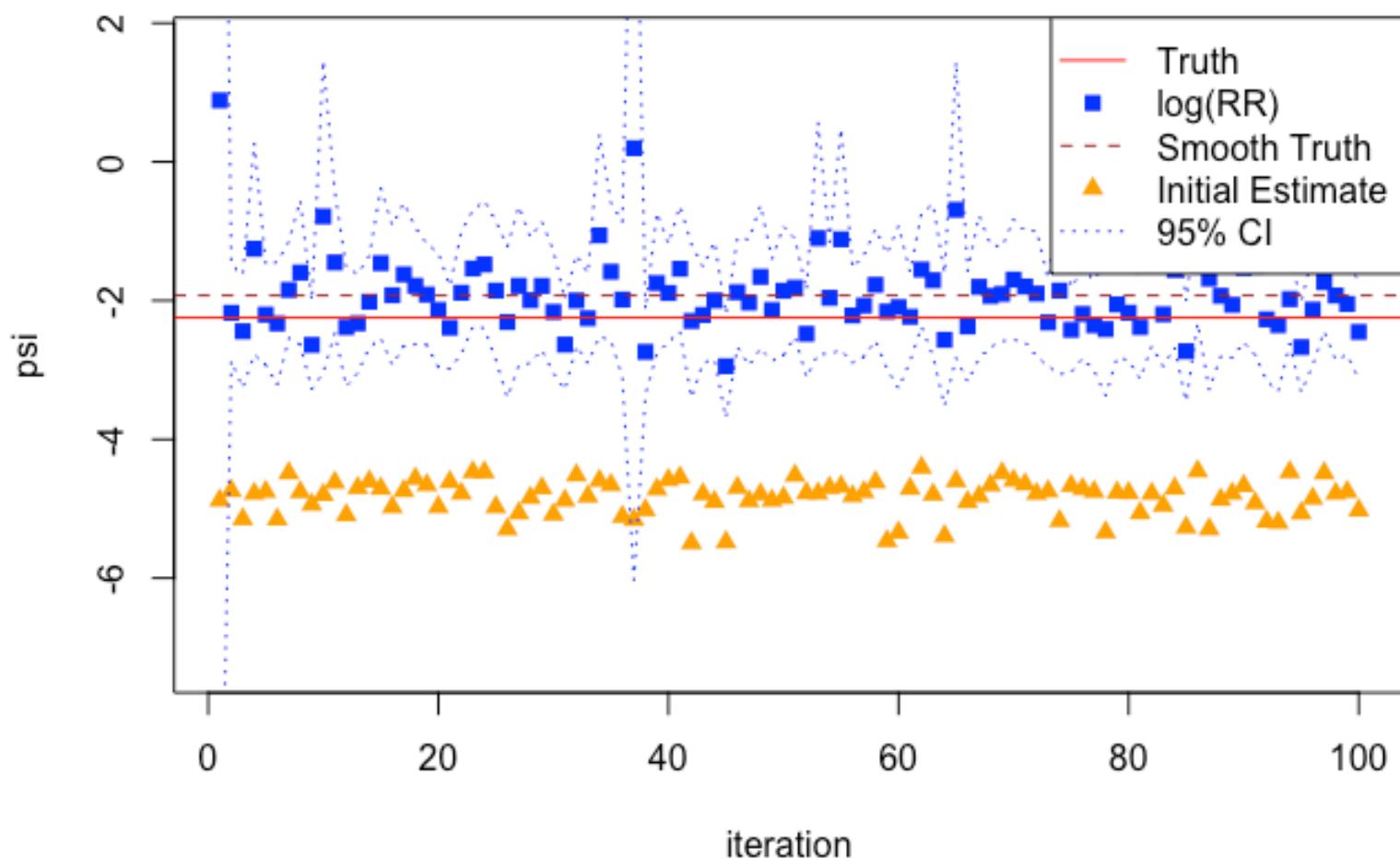
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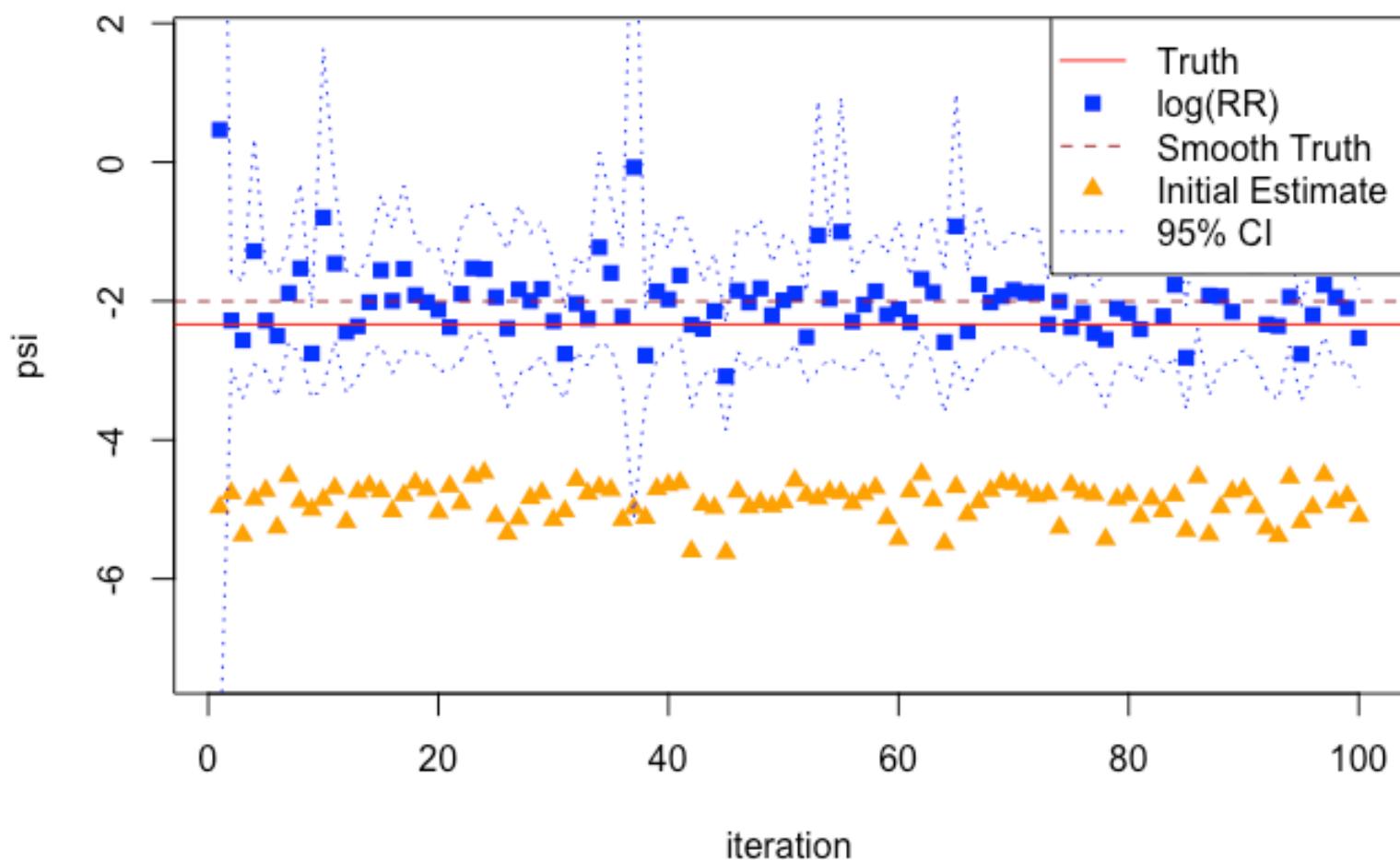
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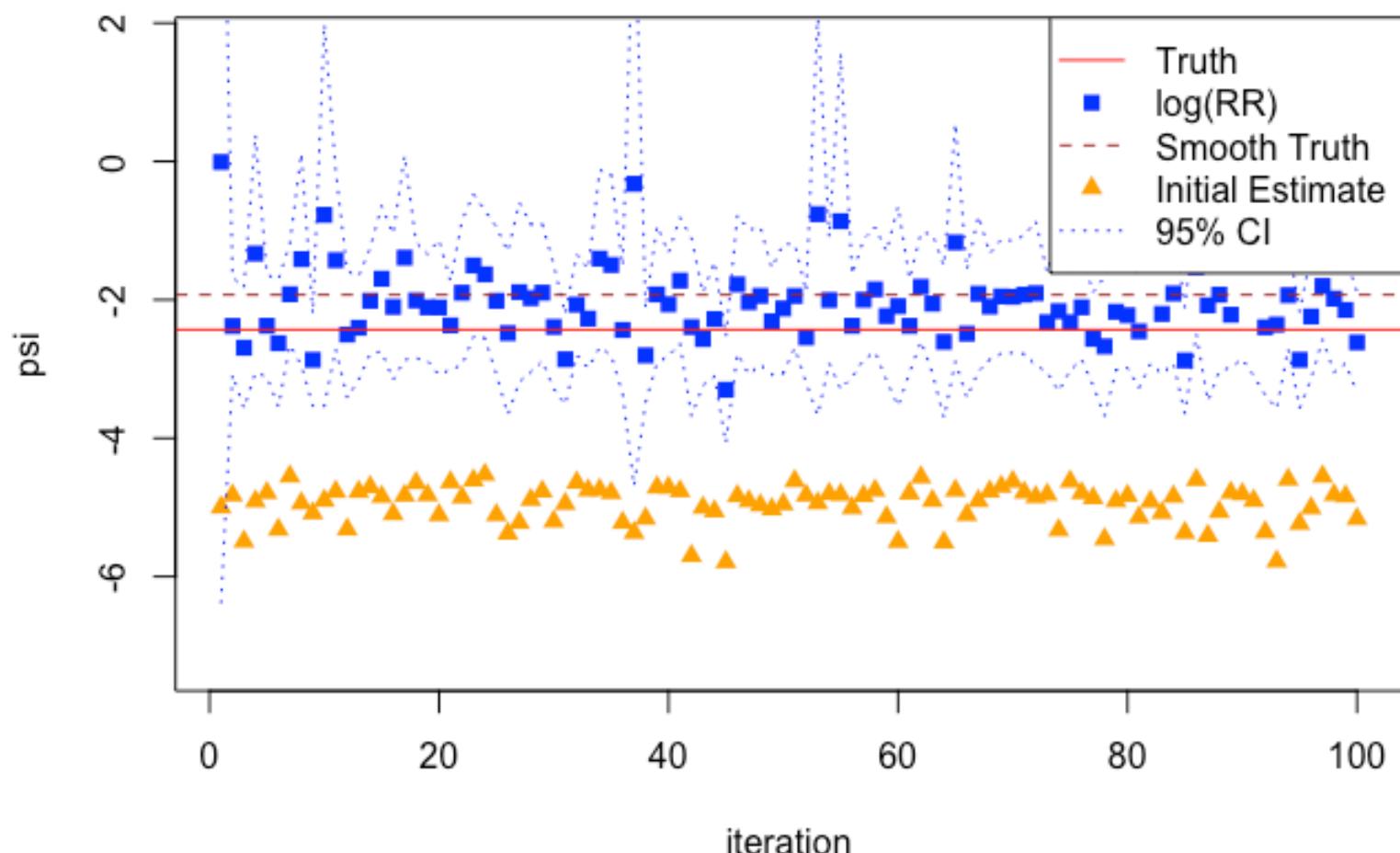
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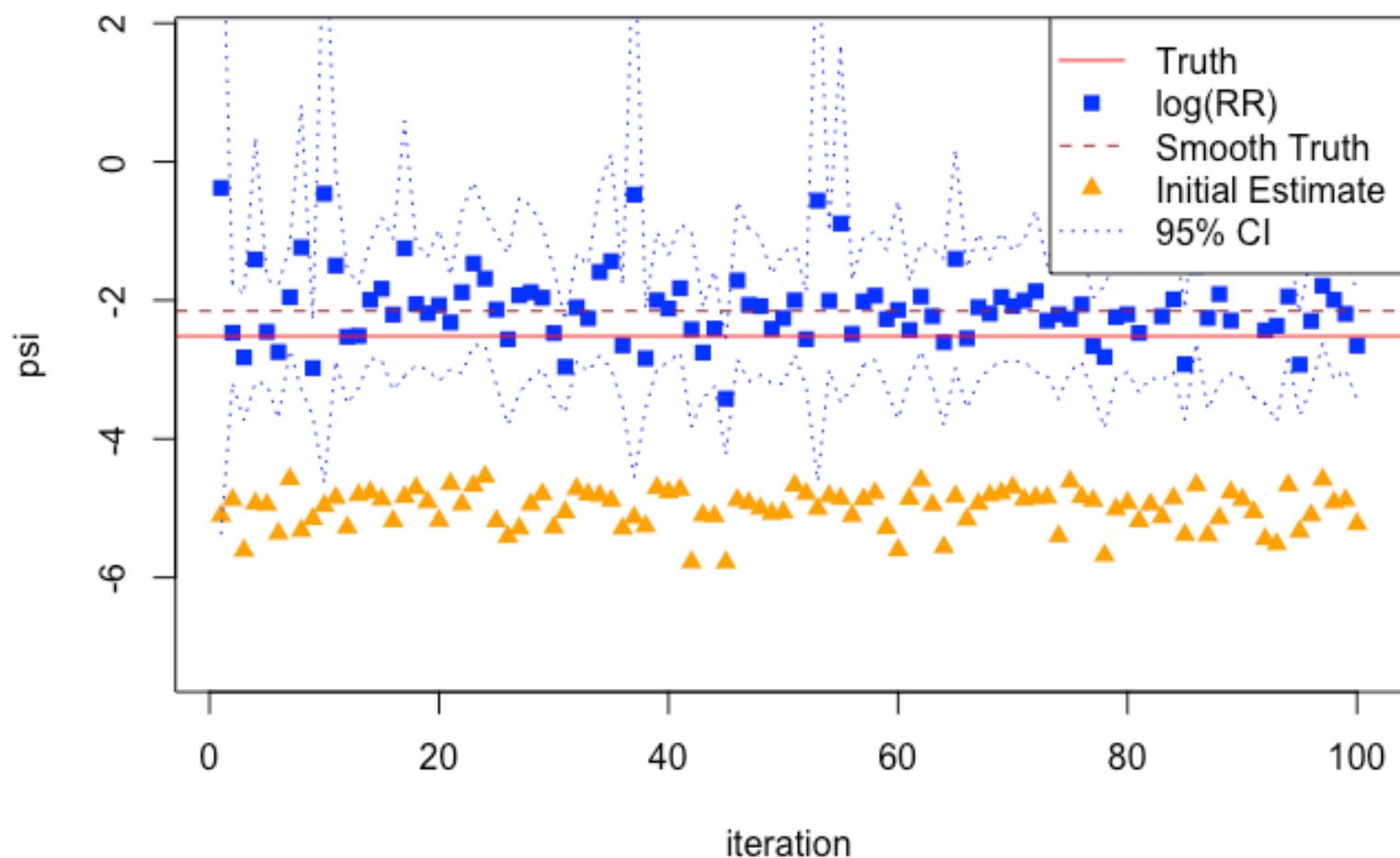
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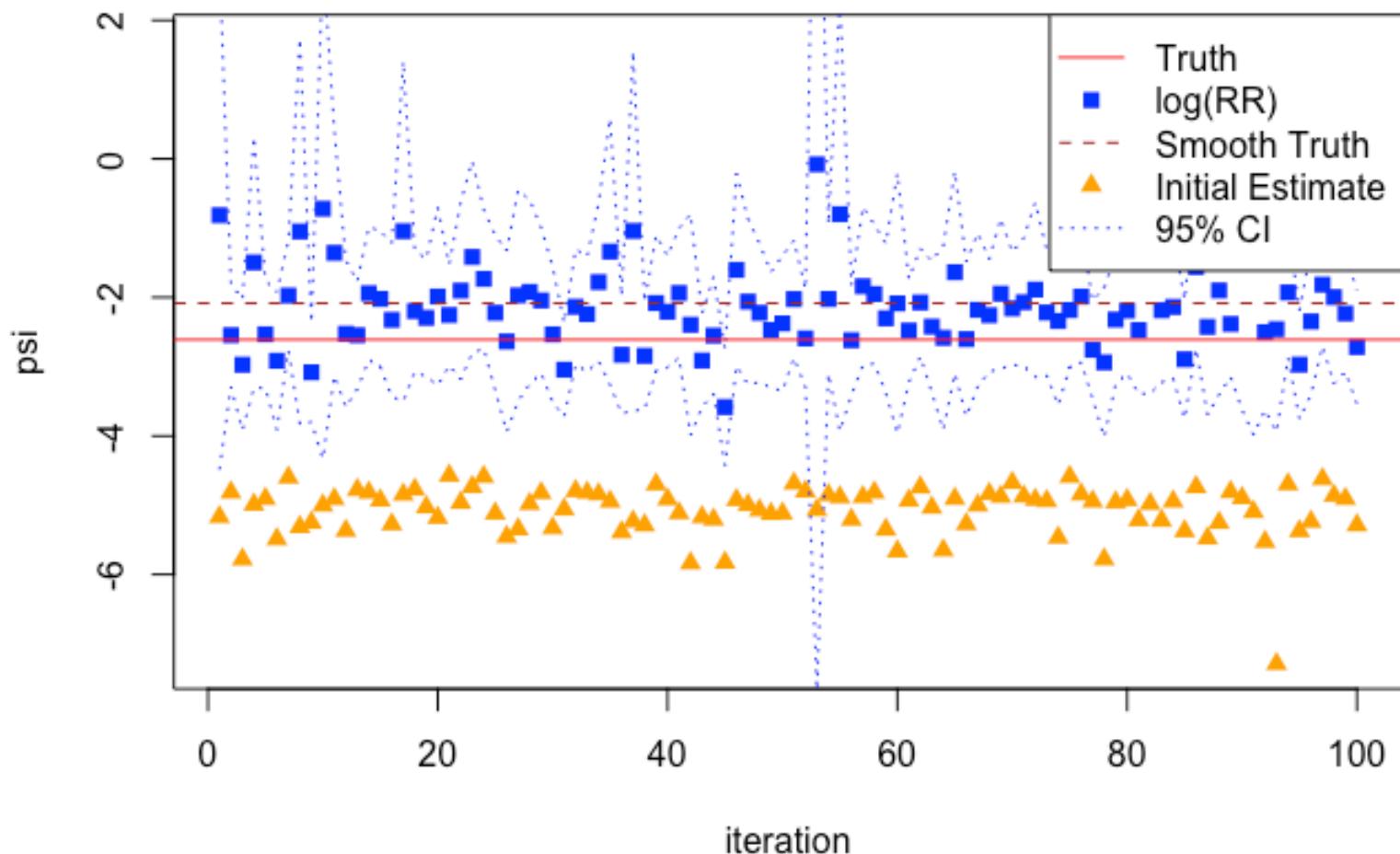
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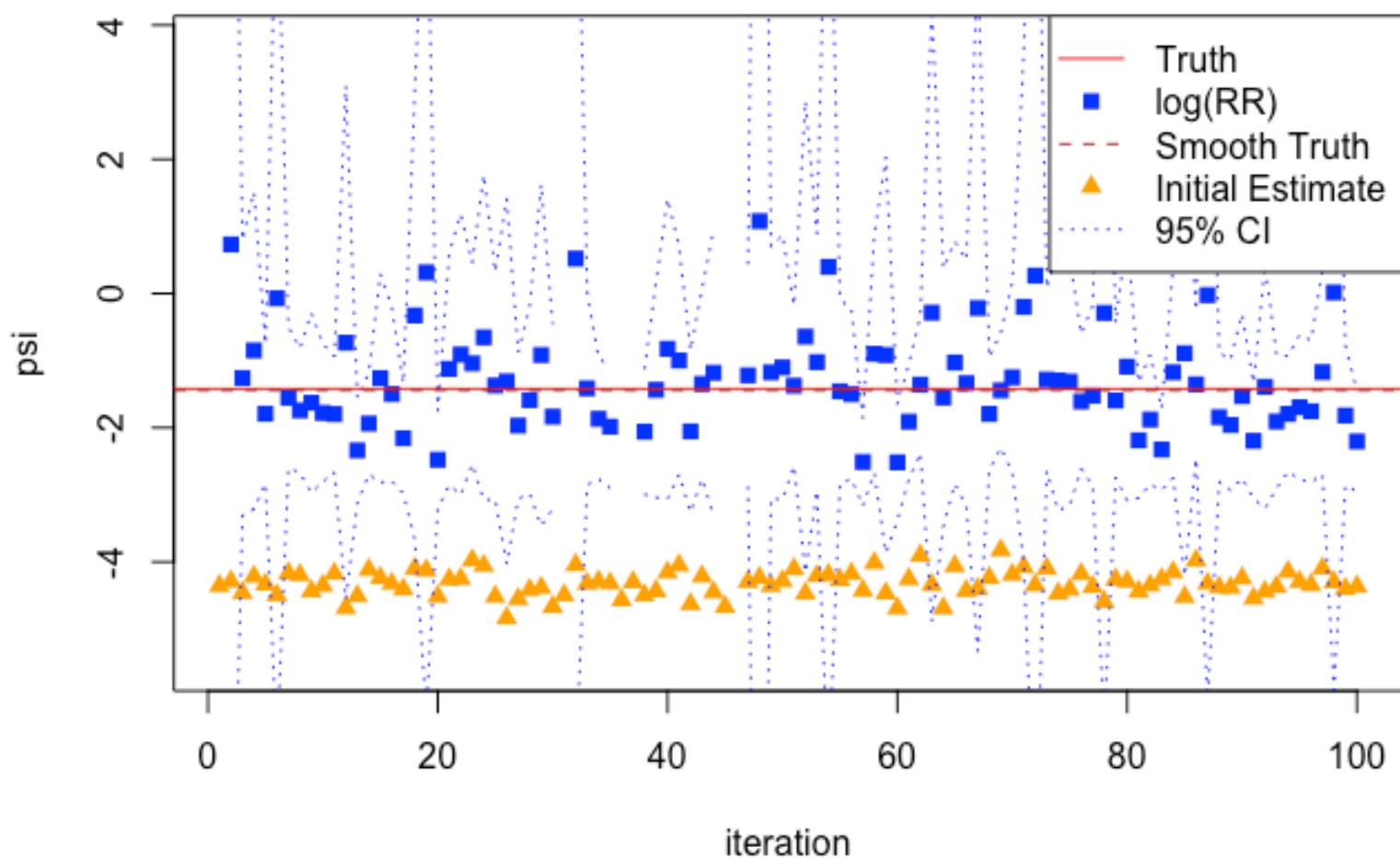
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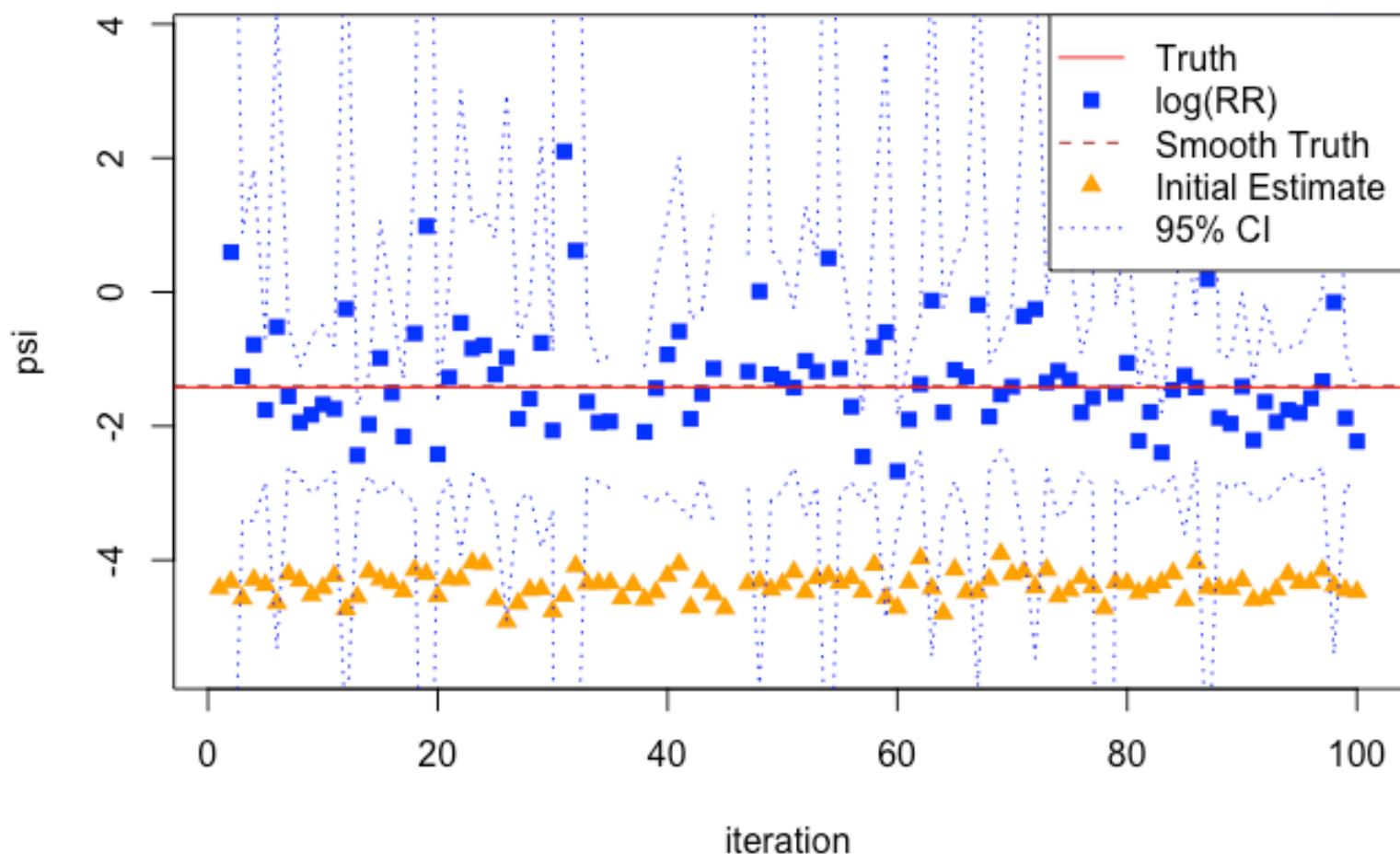
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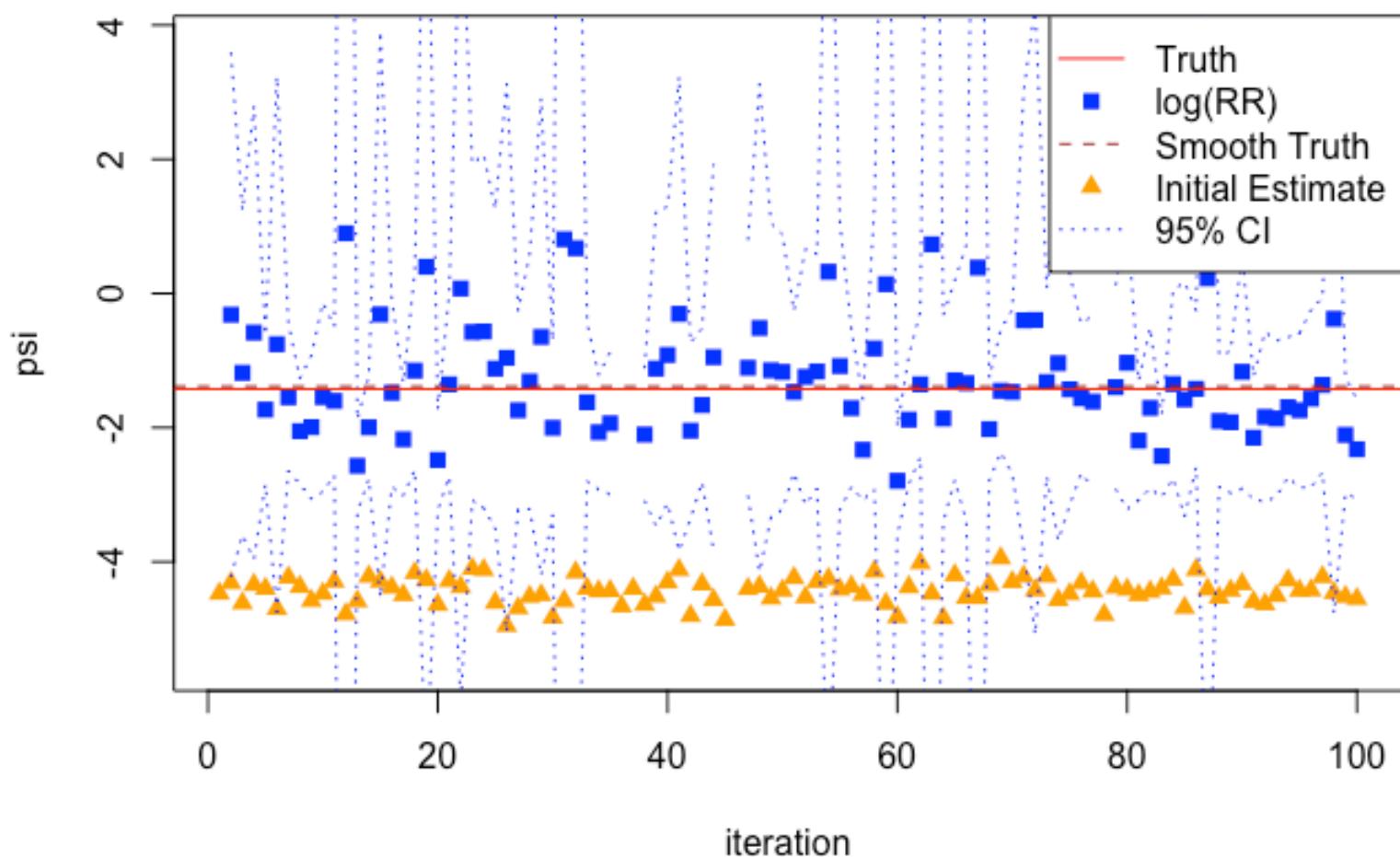
s1=0 Null case for $\text{cor}(S1, W)=0.75$, crossover rate=0.25, sample rate=0.25



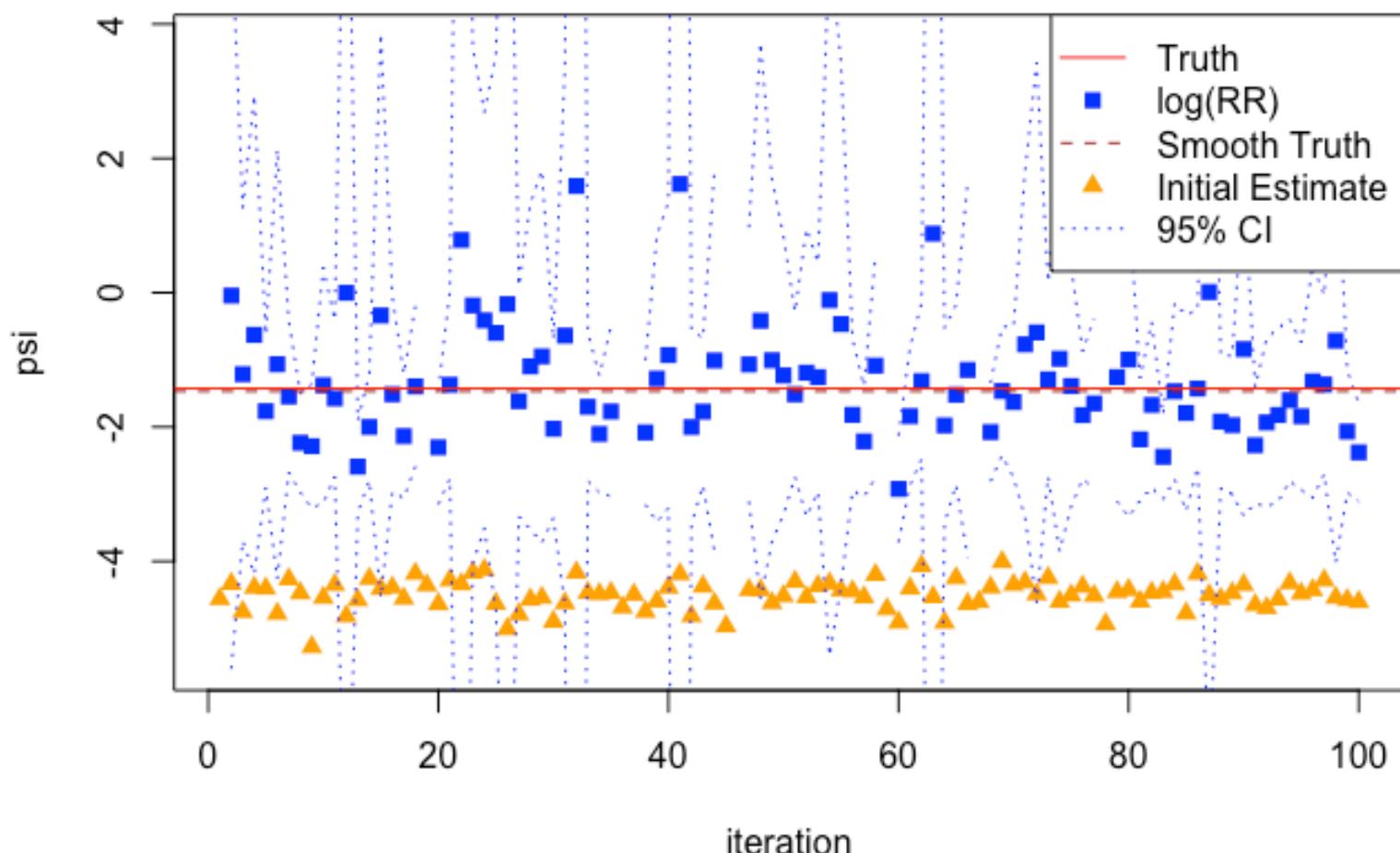
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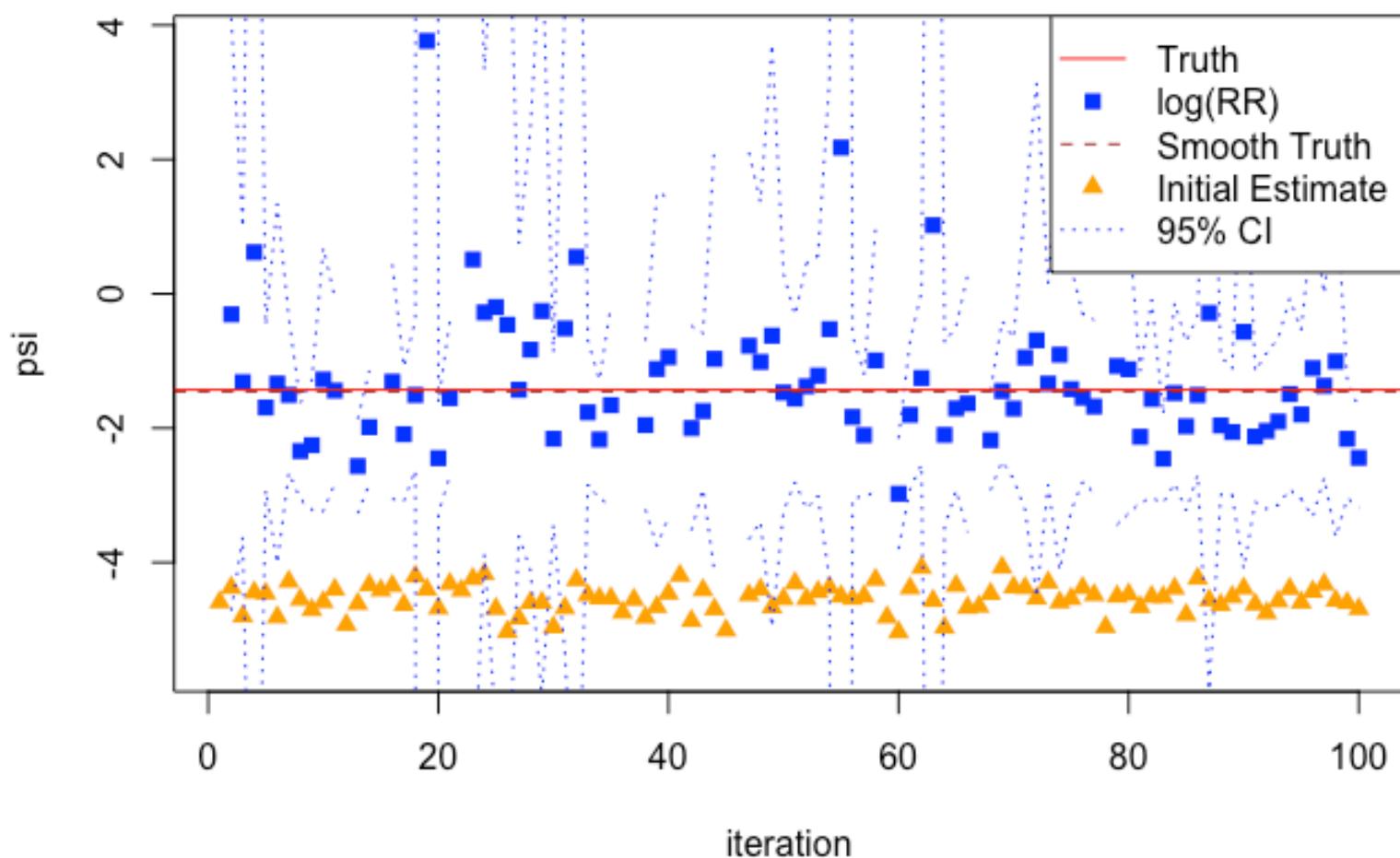
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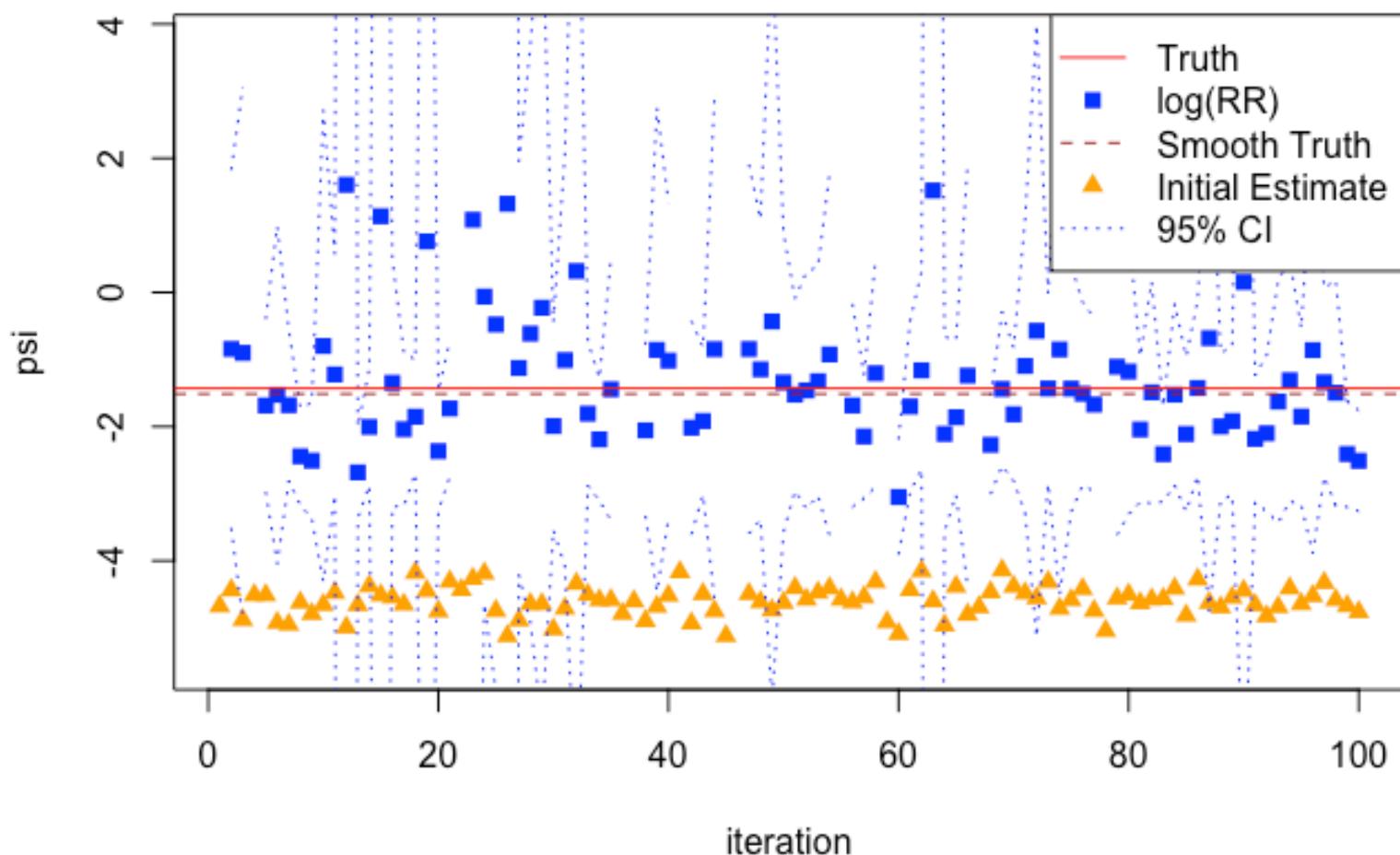
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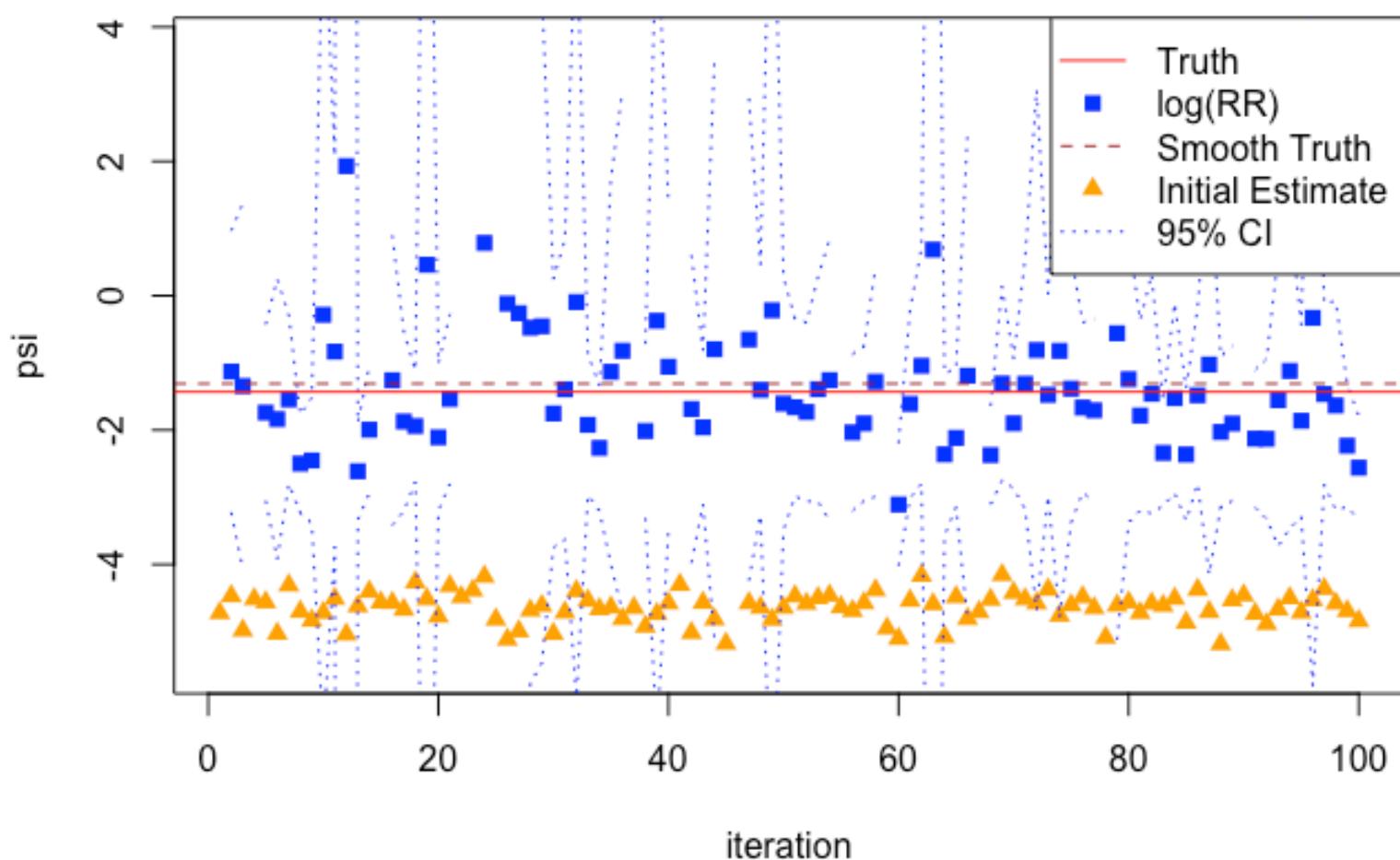
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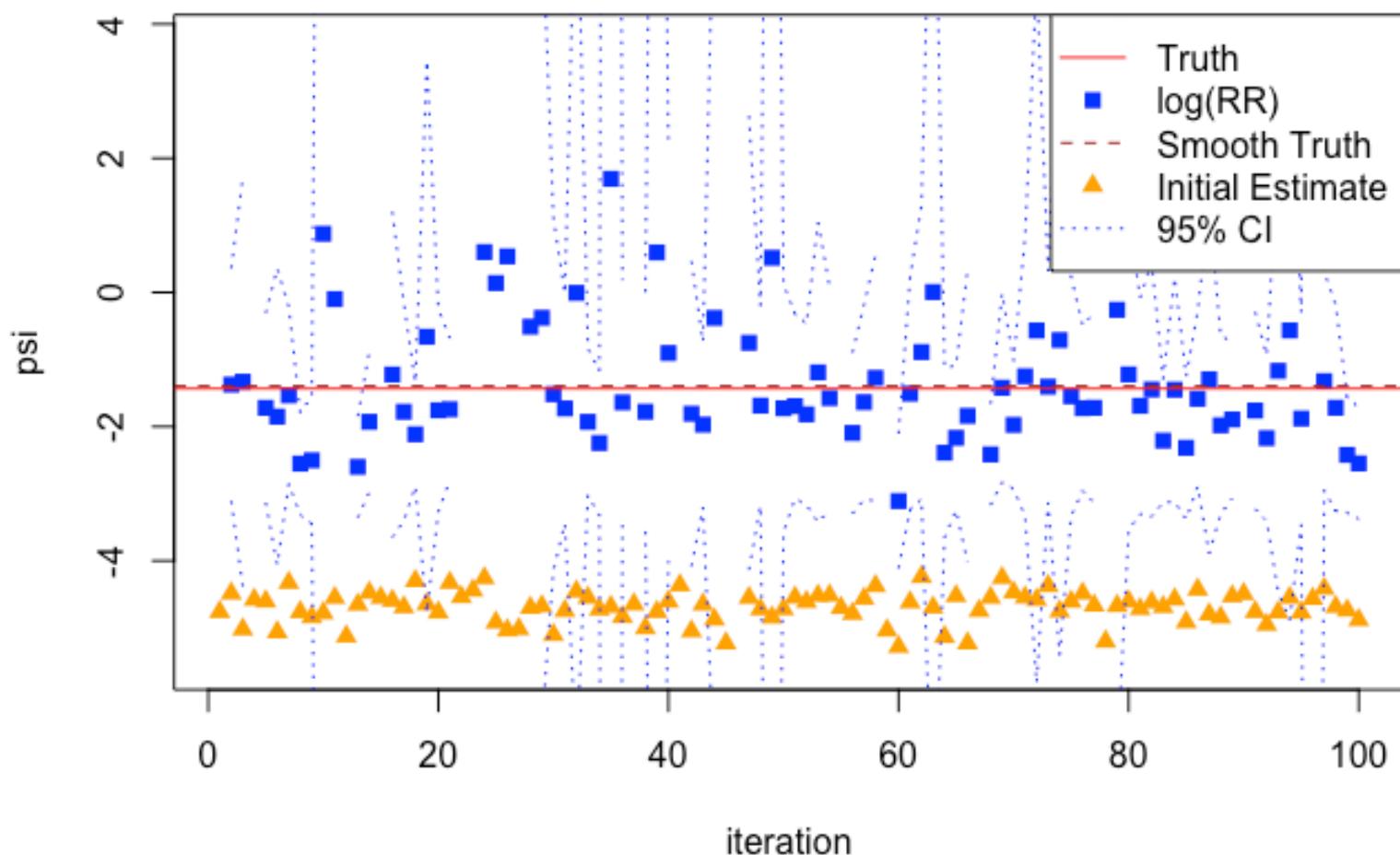
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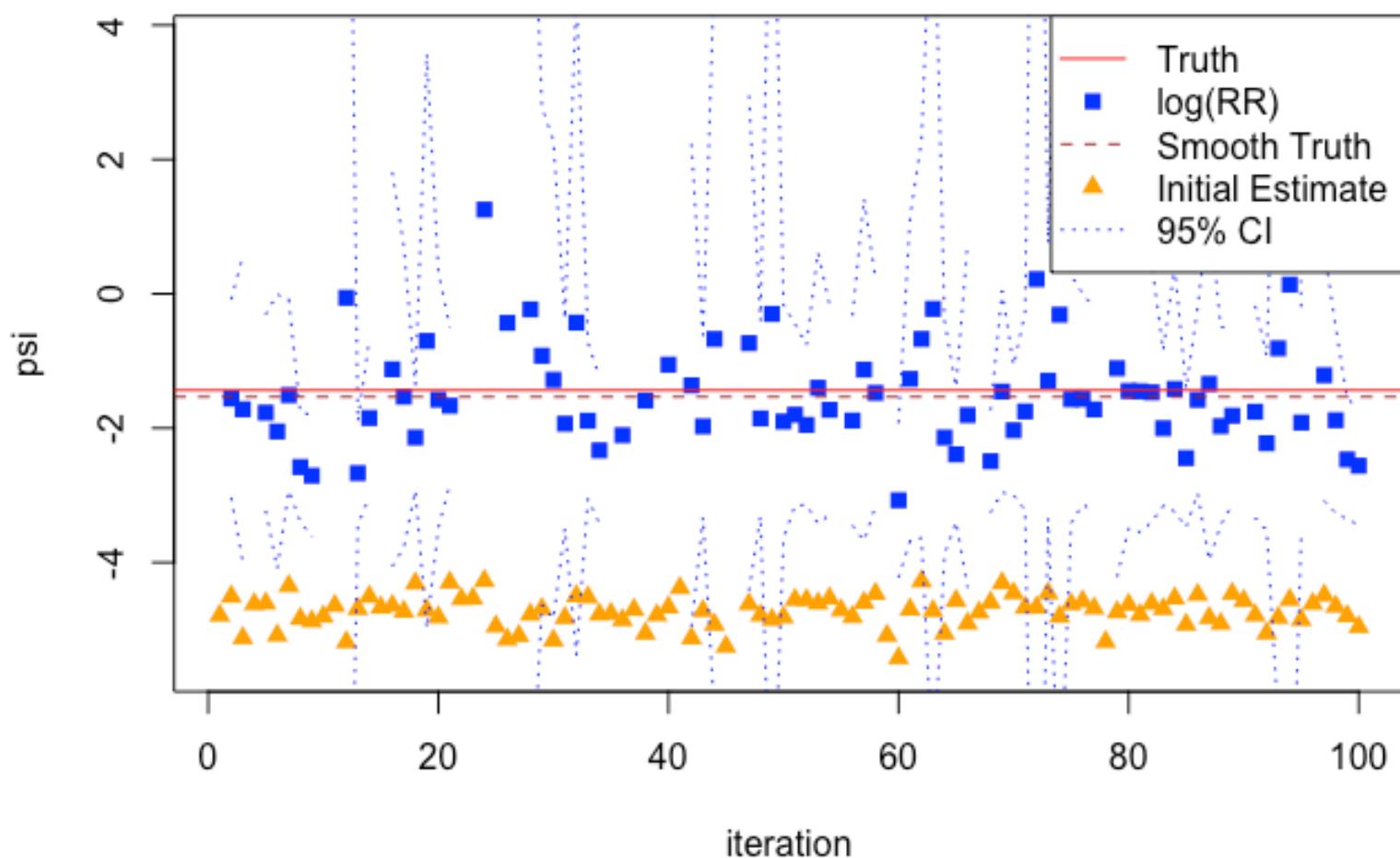
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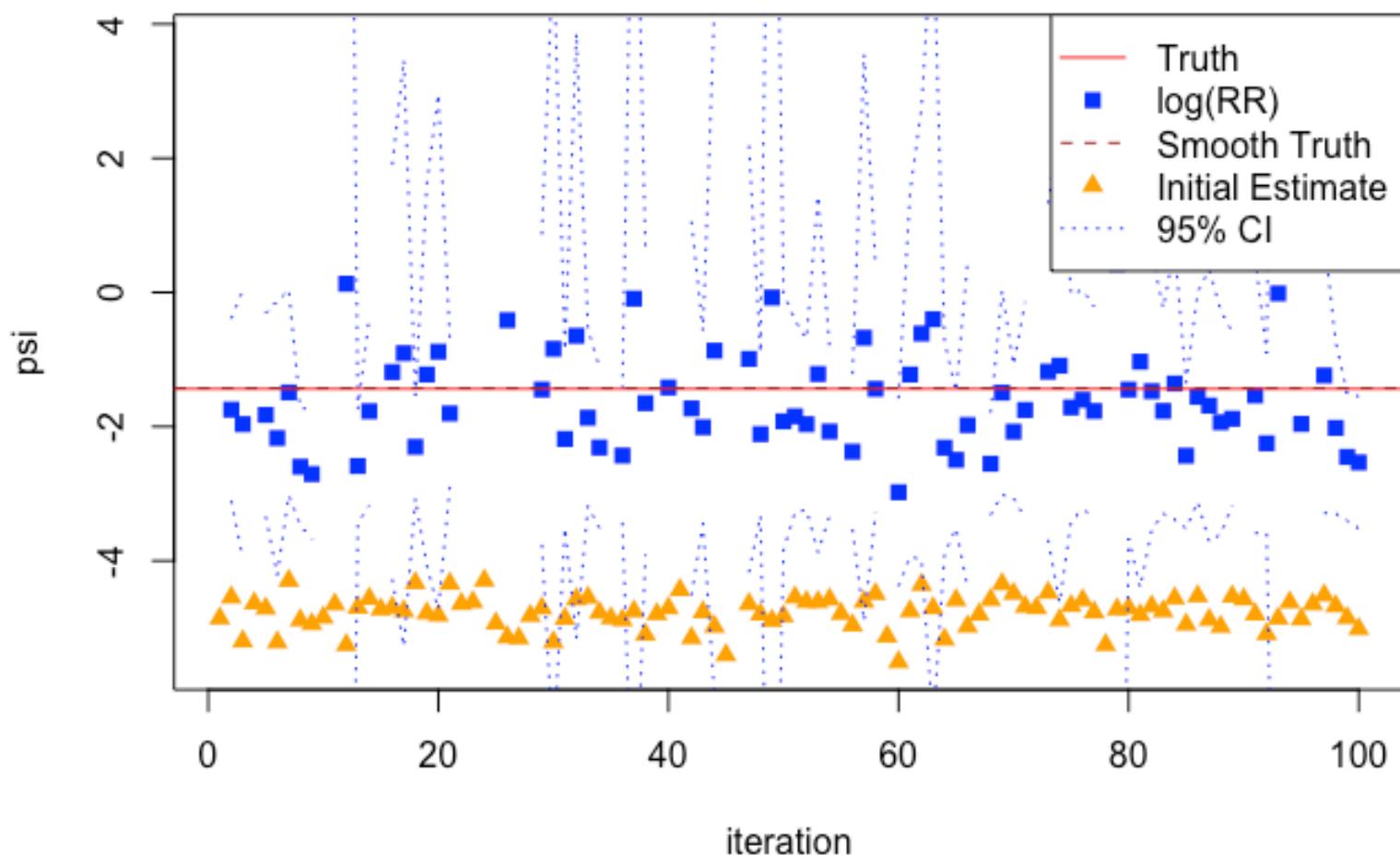
$s_1=0.7$ Null case for $\text{cor}(S_1, W)=0.75$, crossover rate=0.25, sample rate=0.25



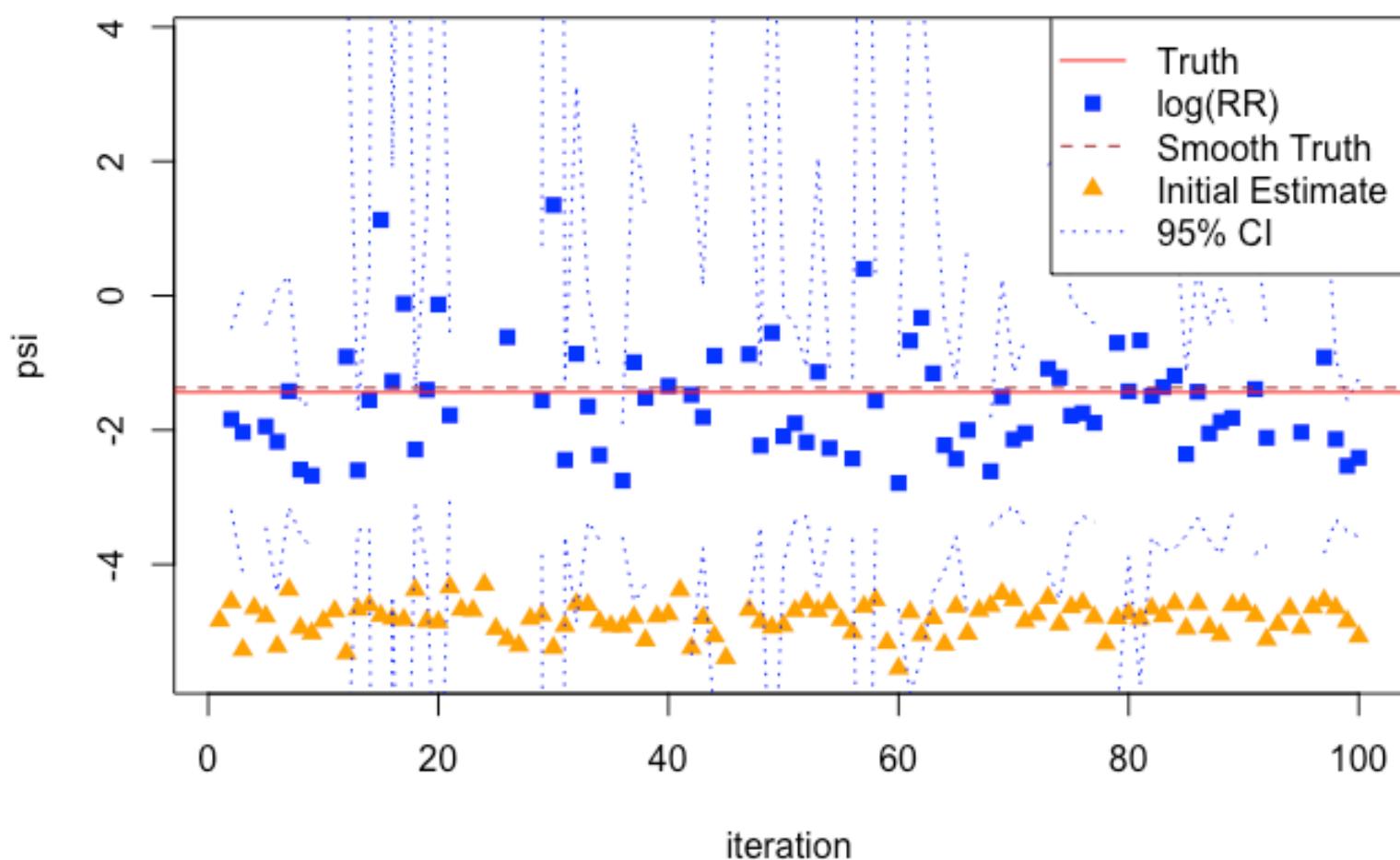
$s_1=0.8$ Null case for $\text{cor}(S_1, W)=0.75$, crossover rate=0.25, sample rate=0.25



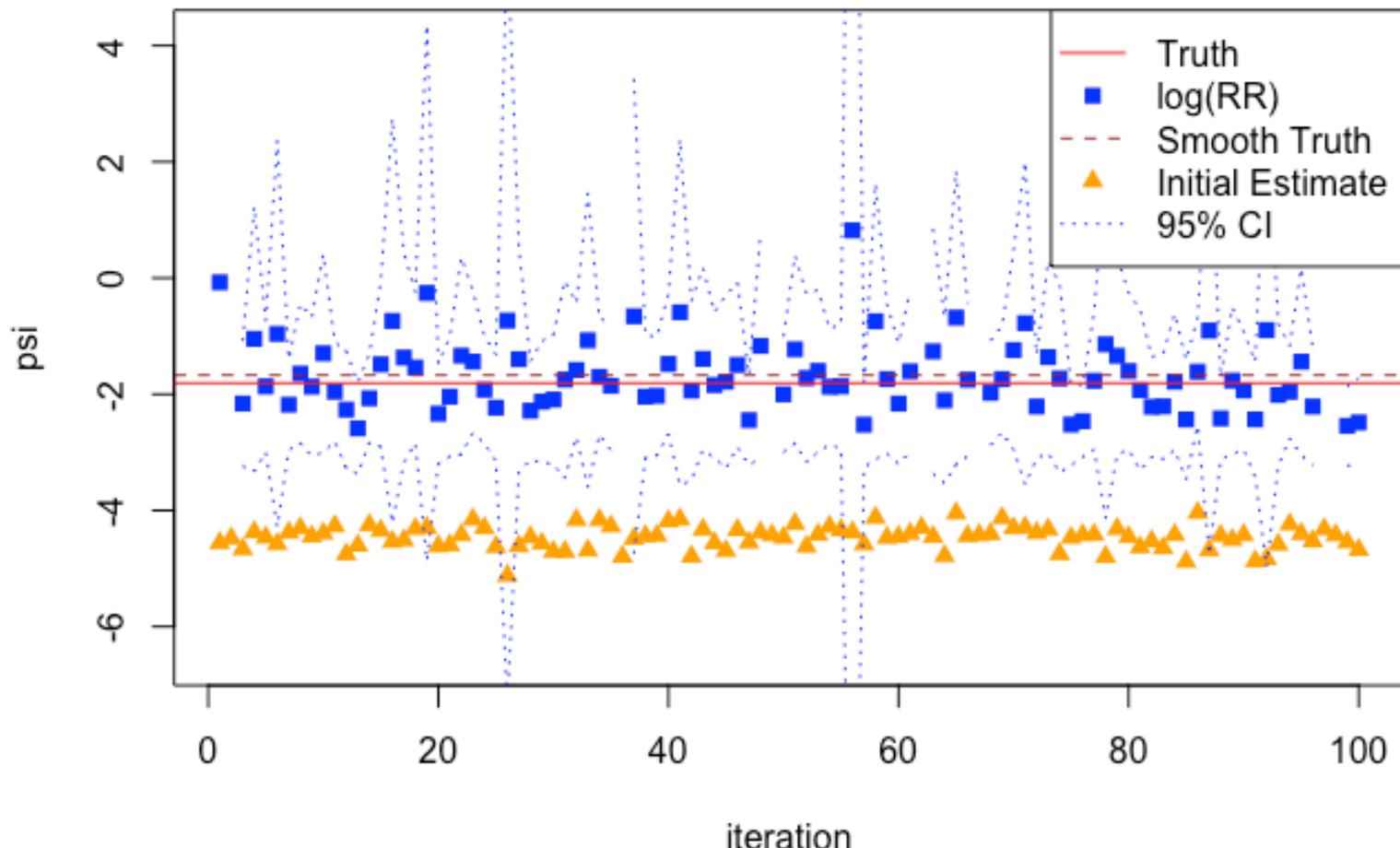
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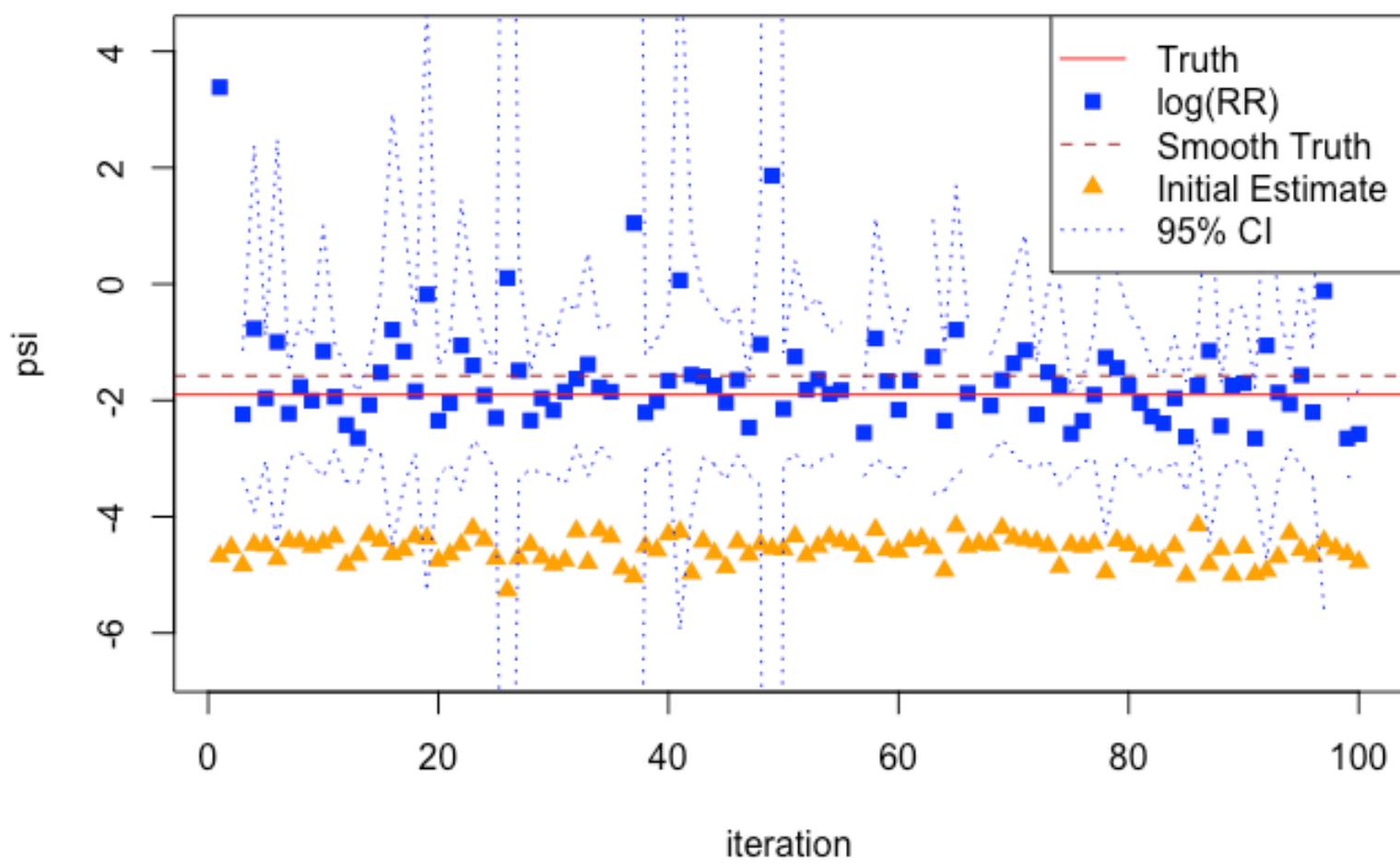
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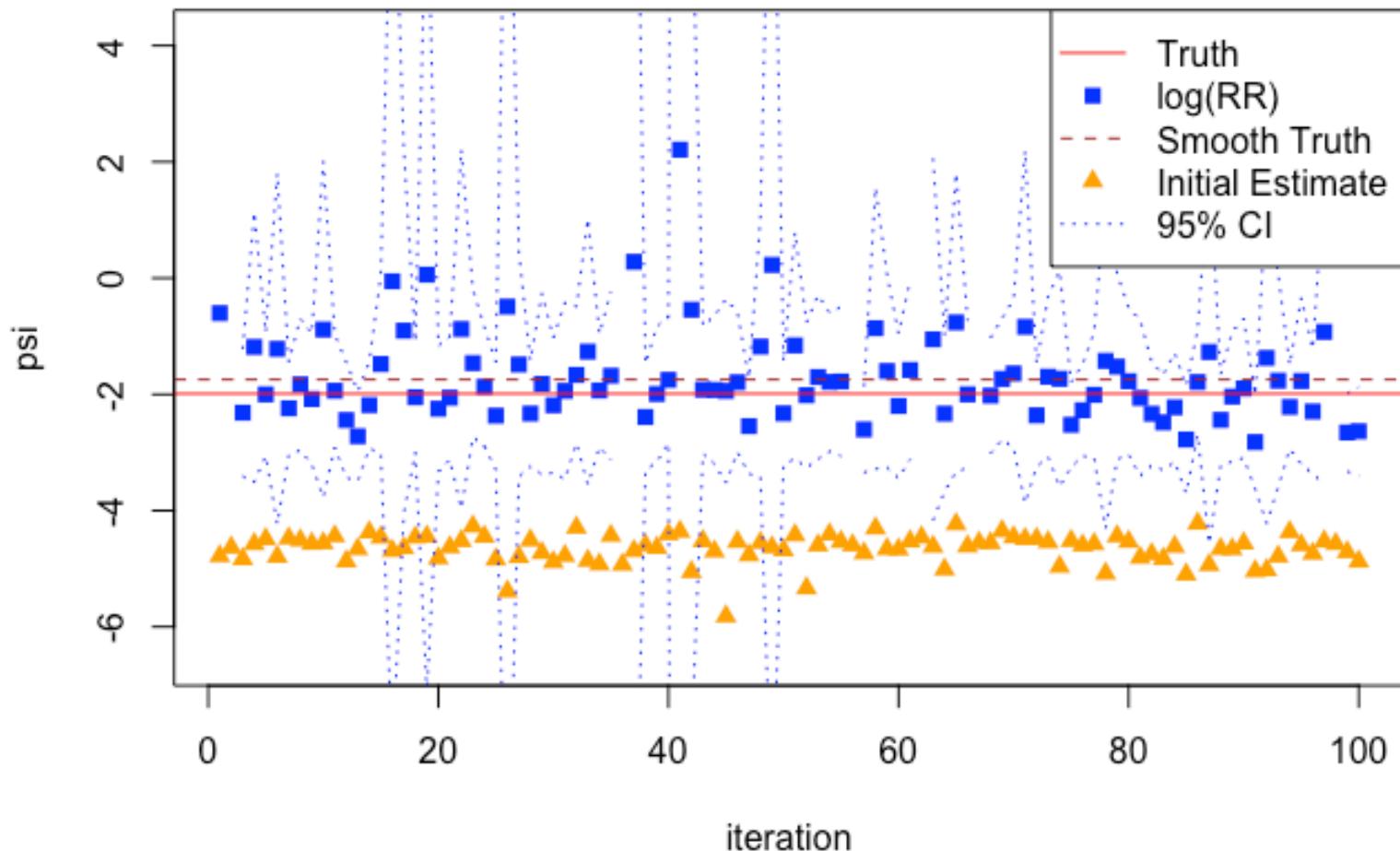
s1=0 Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=0.25



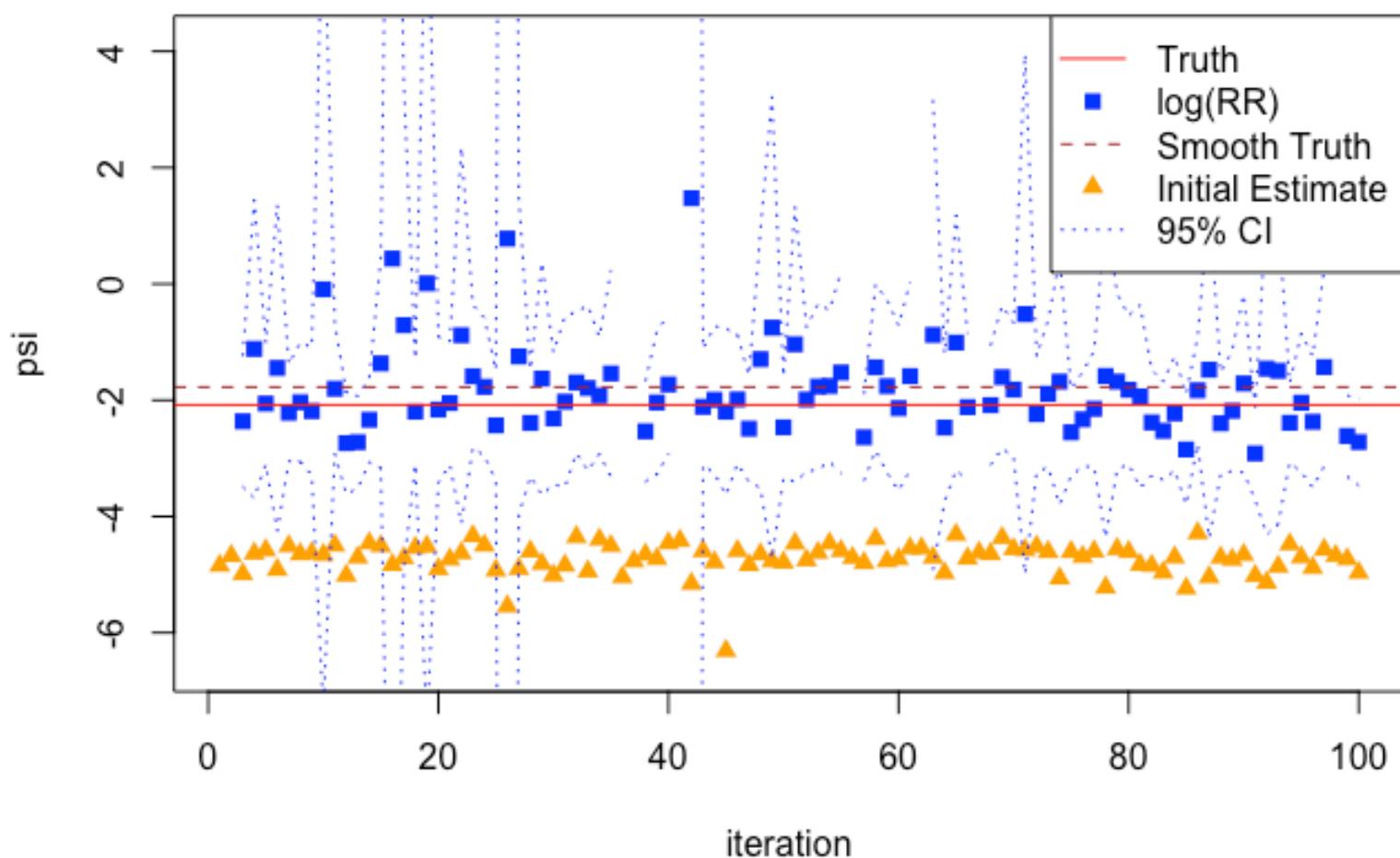
s1=0.1 Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=0.25



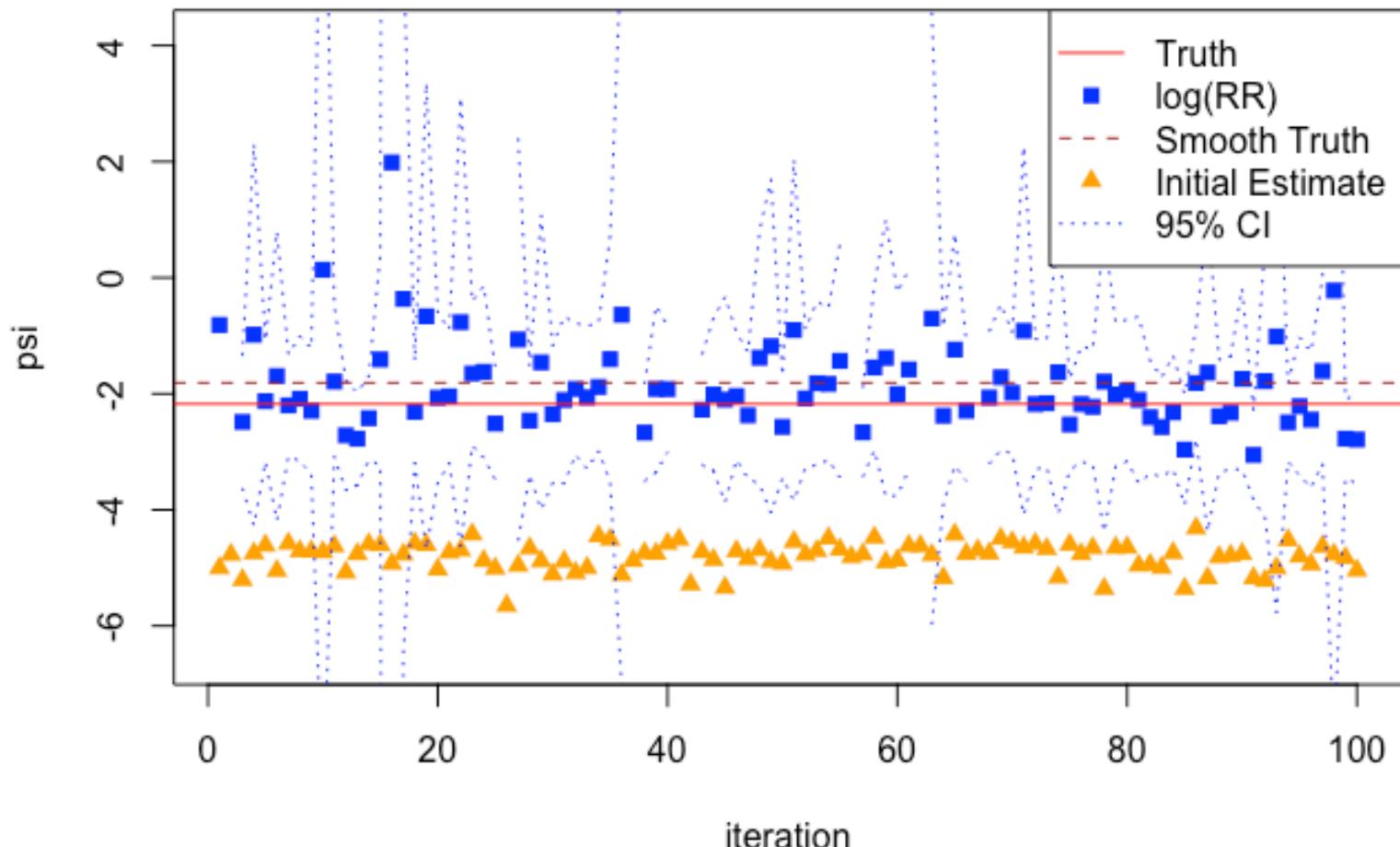
$s_1=0.2$ Alternative case for $\text{cor}(S_1, W)=0.75$, crossover rate=0.25, sample rate=0.25



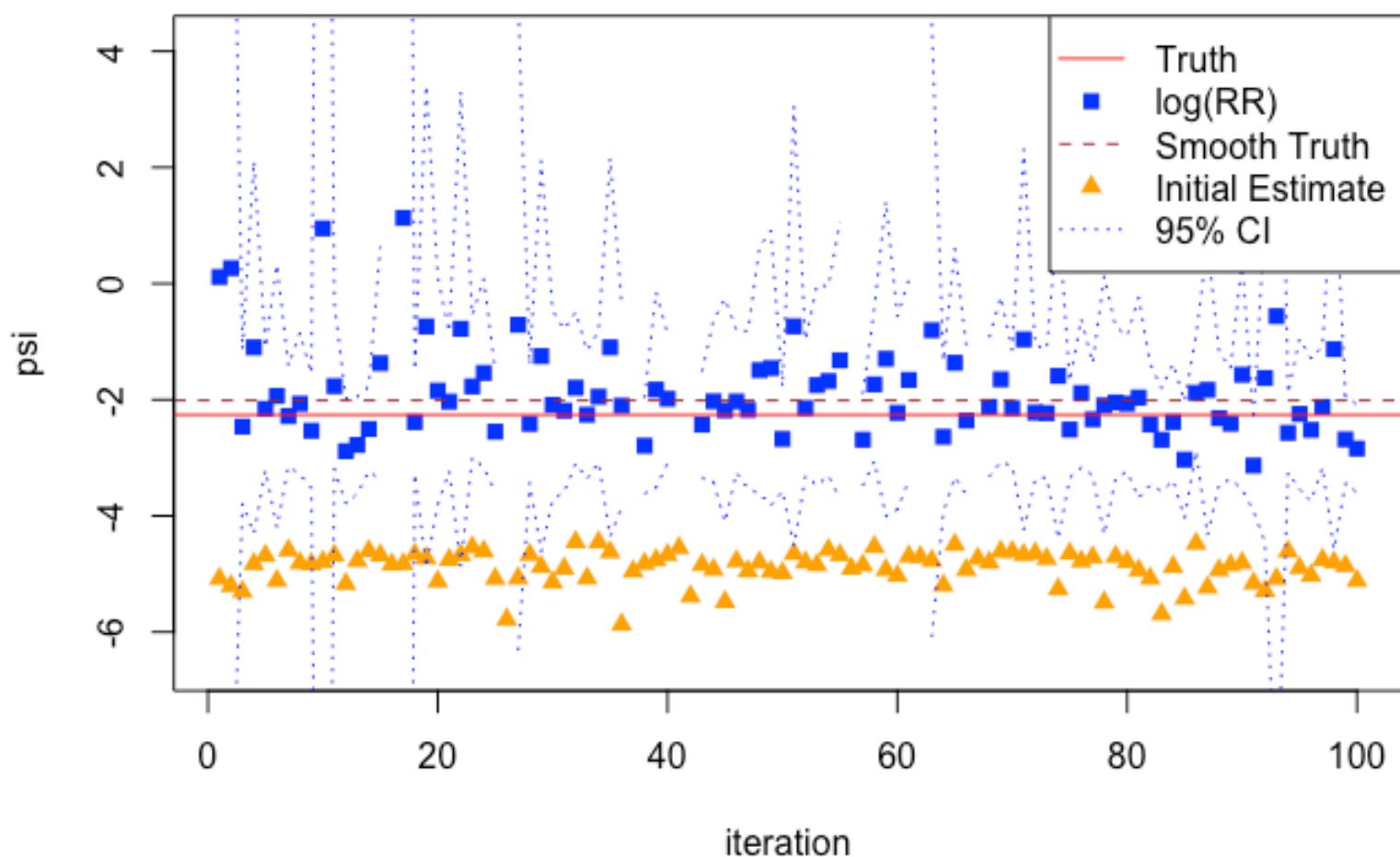
$s_1=0.3$ Alternative case for $\text{cor}(S_1, W)=0.75$, crossover rate=0.25, sample rate=0.25



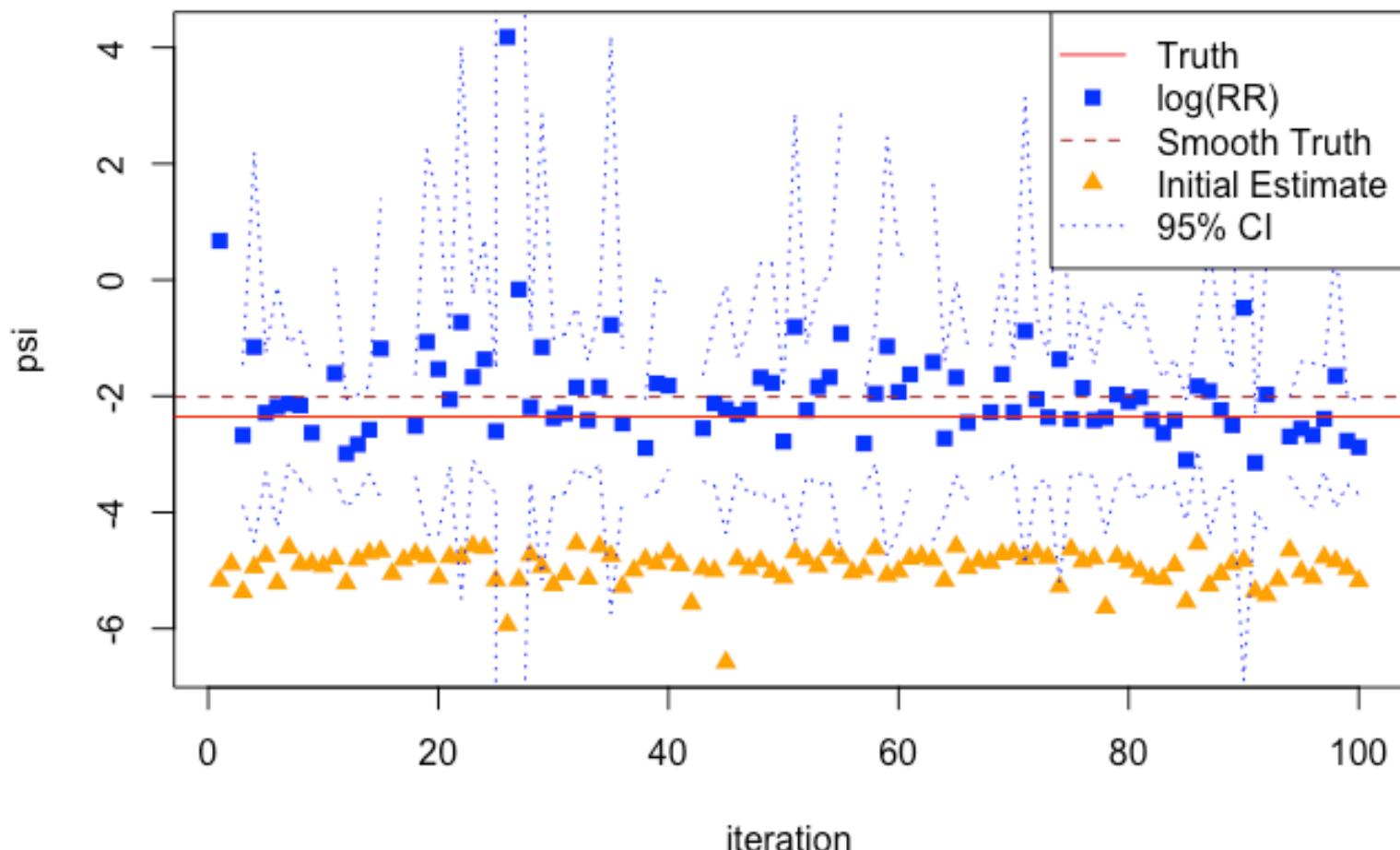
$s_1=0.4$ Alternative case for $\text{cor}(S_1, W)=0.75$, crossover rate=0.25, sample rate=0.25



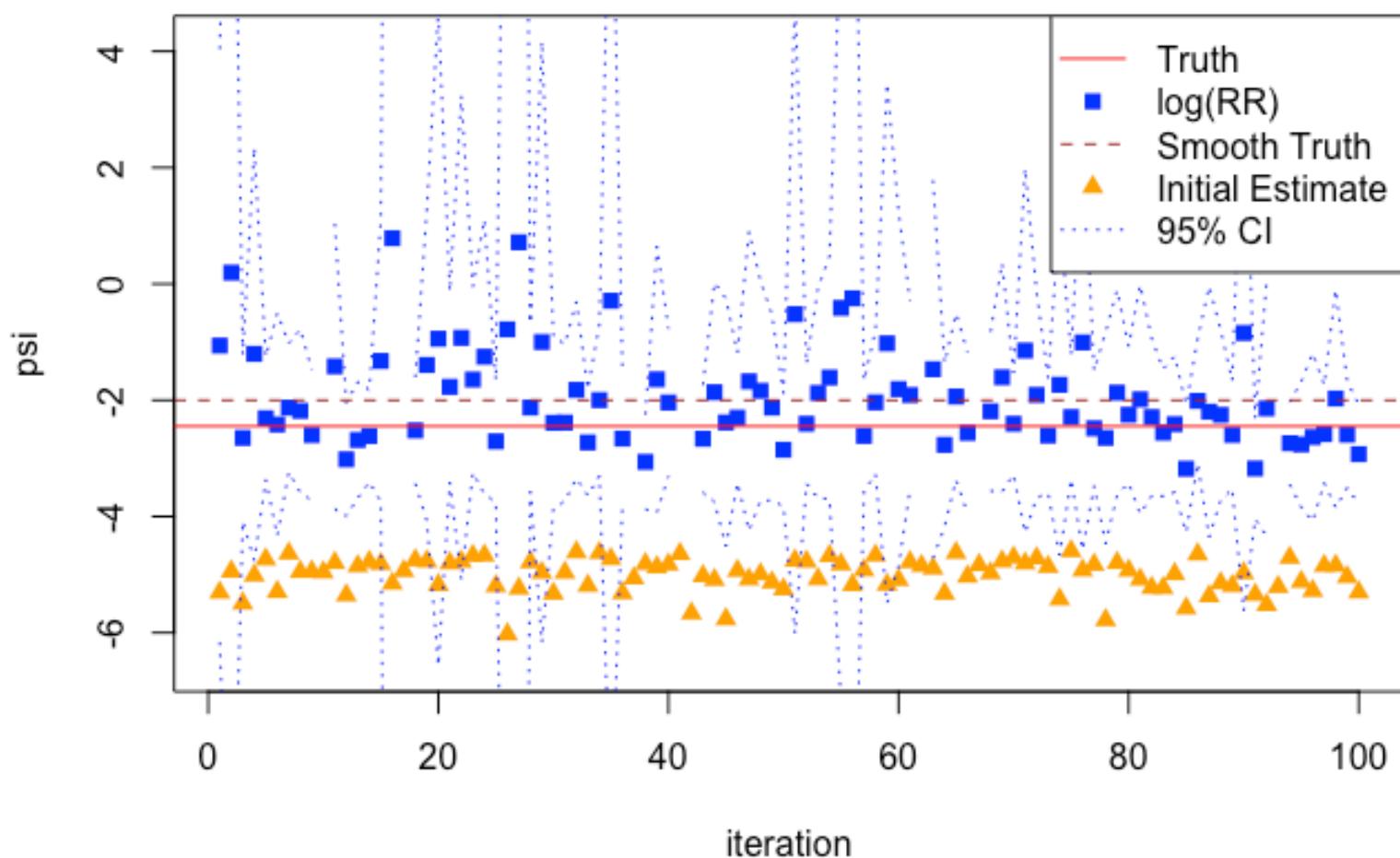
$s_1=0.5$ Alternative case for $\text{cor}(S_1, W)=0.75$, crossover rate=0.25, sample rate=0.25



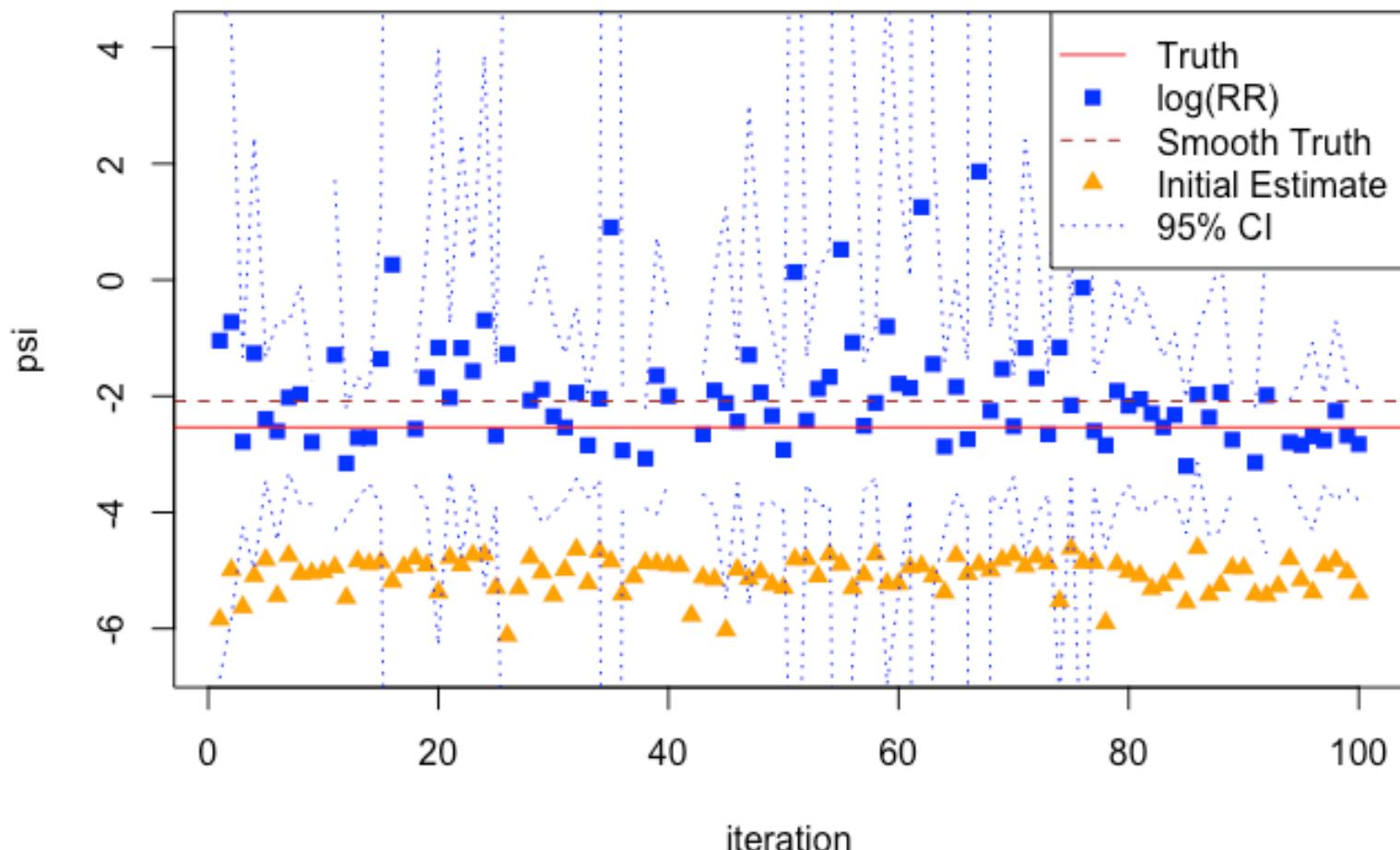
$s_1=0.6$ Alternative case for $\text{cor}(S_1, W)=0.75$, crossover rate=0.25, sample rate=0.25



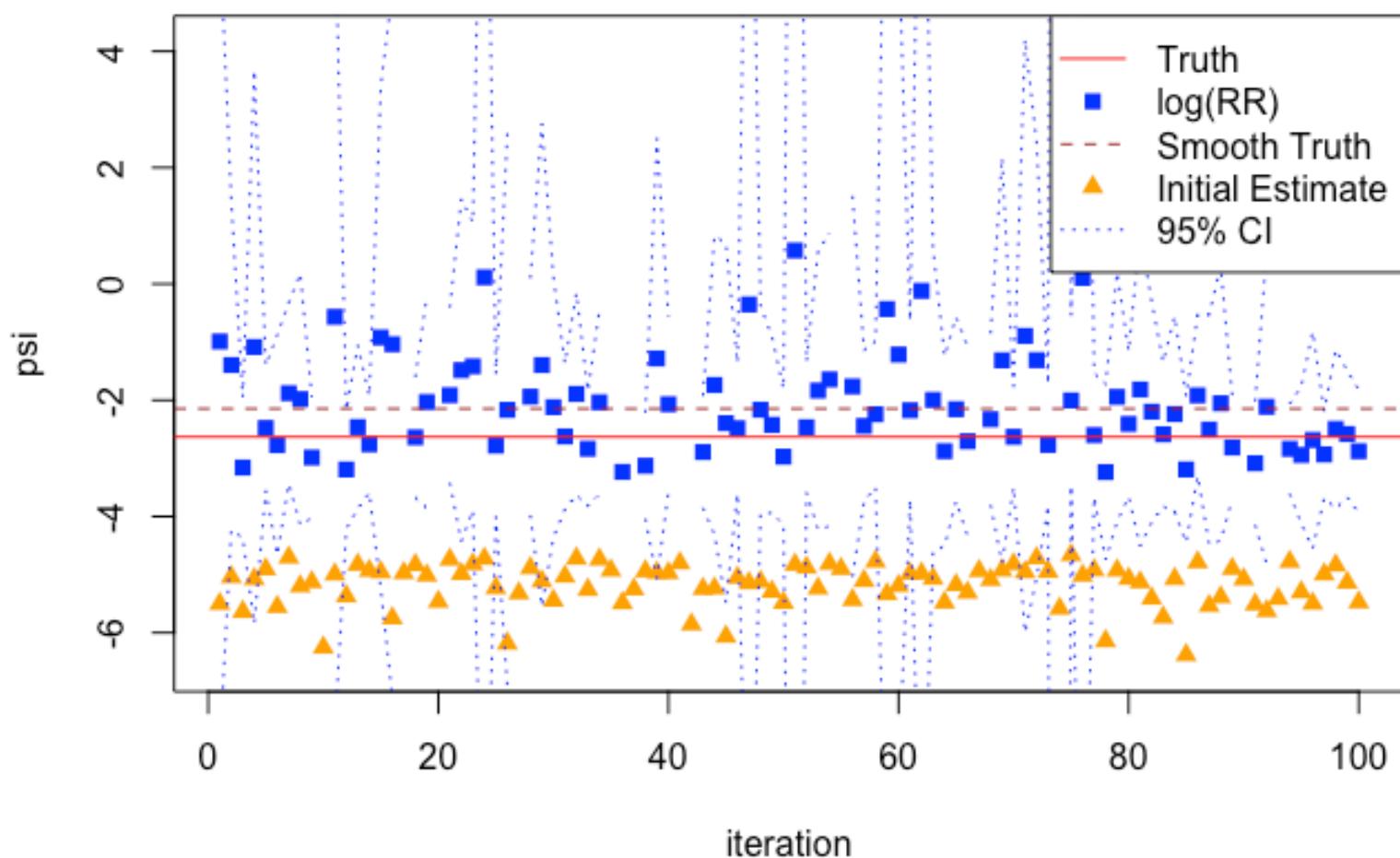
$s_1=0.7$ Alternative case for $\text{cor}(S_1, W)=0.75$, crossover rate=0.25, sample rate=0.25



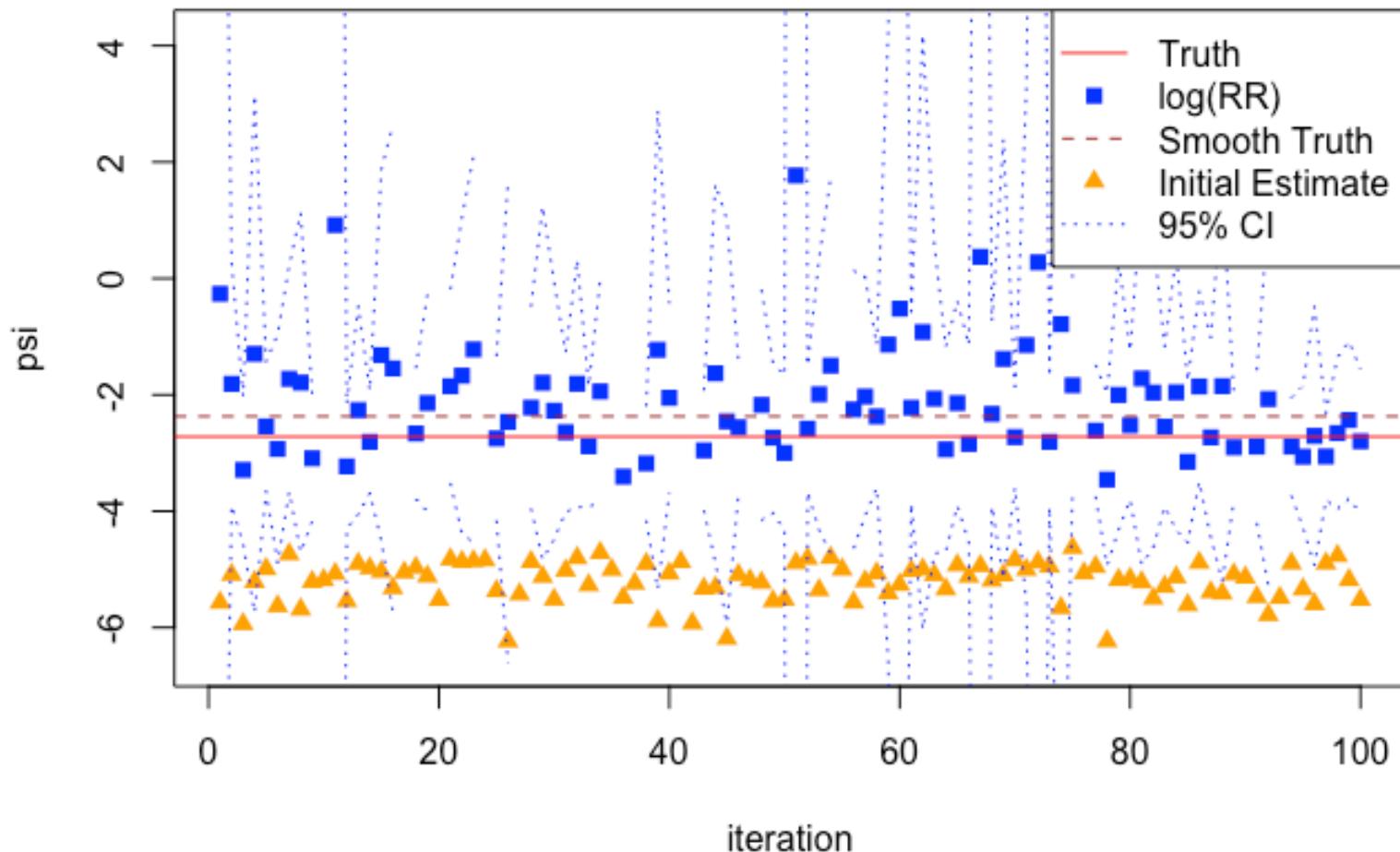
$s_1=0.8$ Alternative case for $\text{cor}(S_1, W)=0.75$, crossover rate=0.25, sample rate=0.25



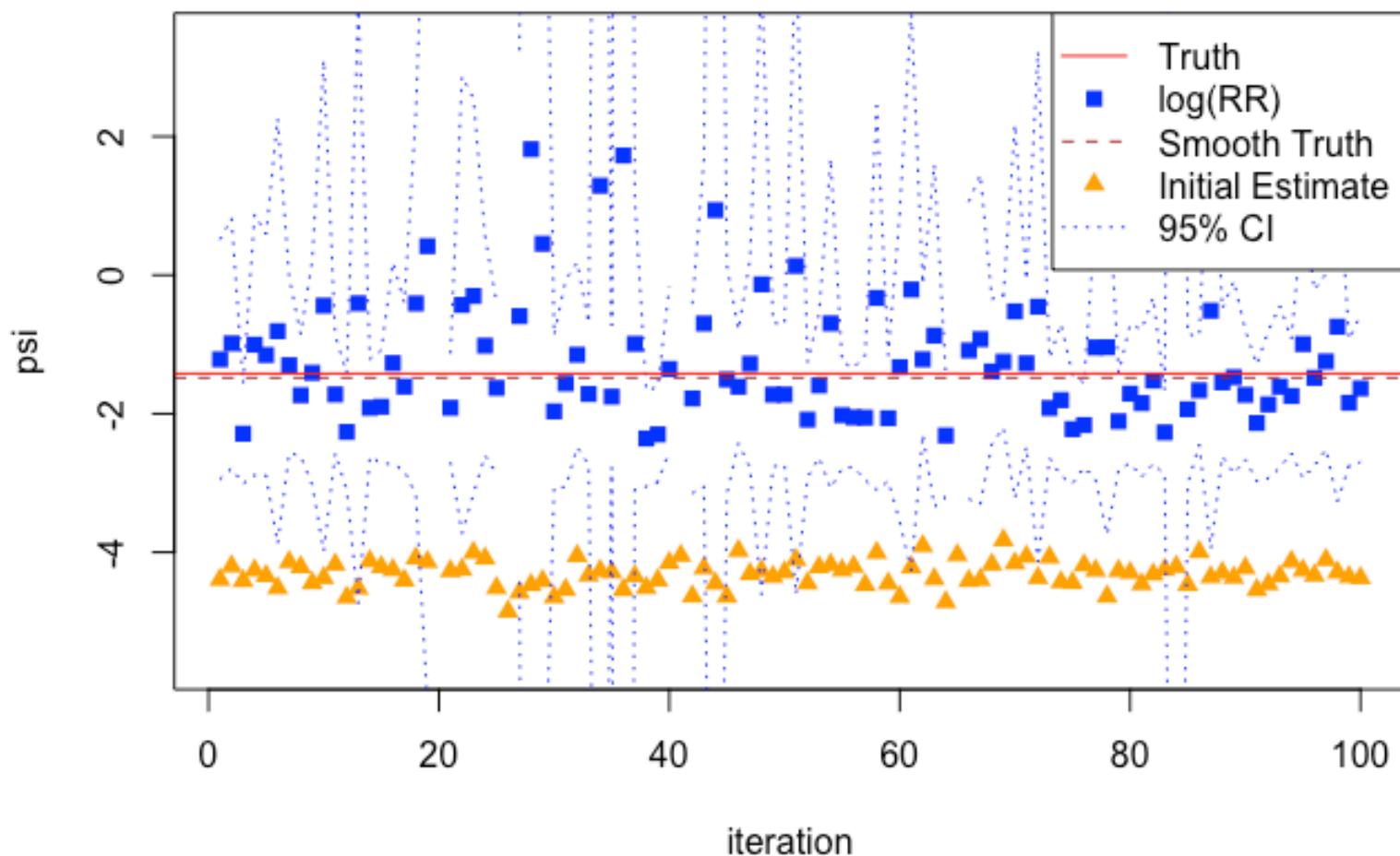
$s_1=0.9$ Alternative case for $\text{cor}(S_1, W)=0.75$, crossover rate=0.25, sample rate=0.25



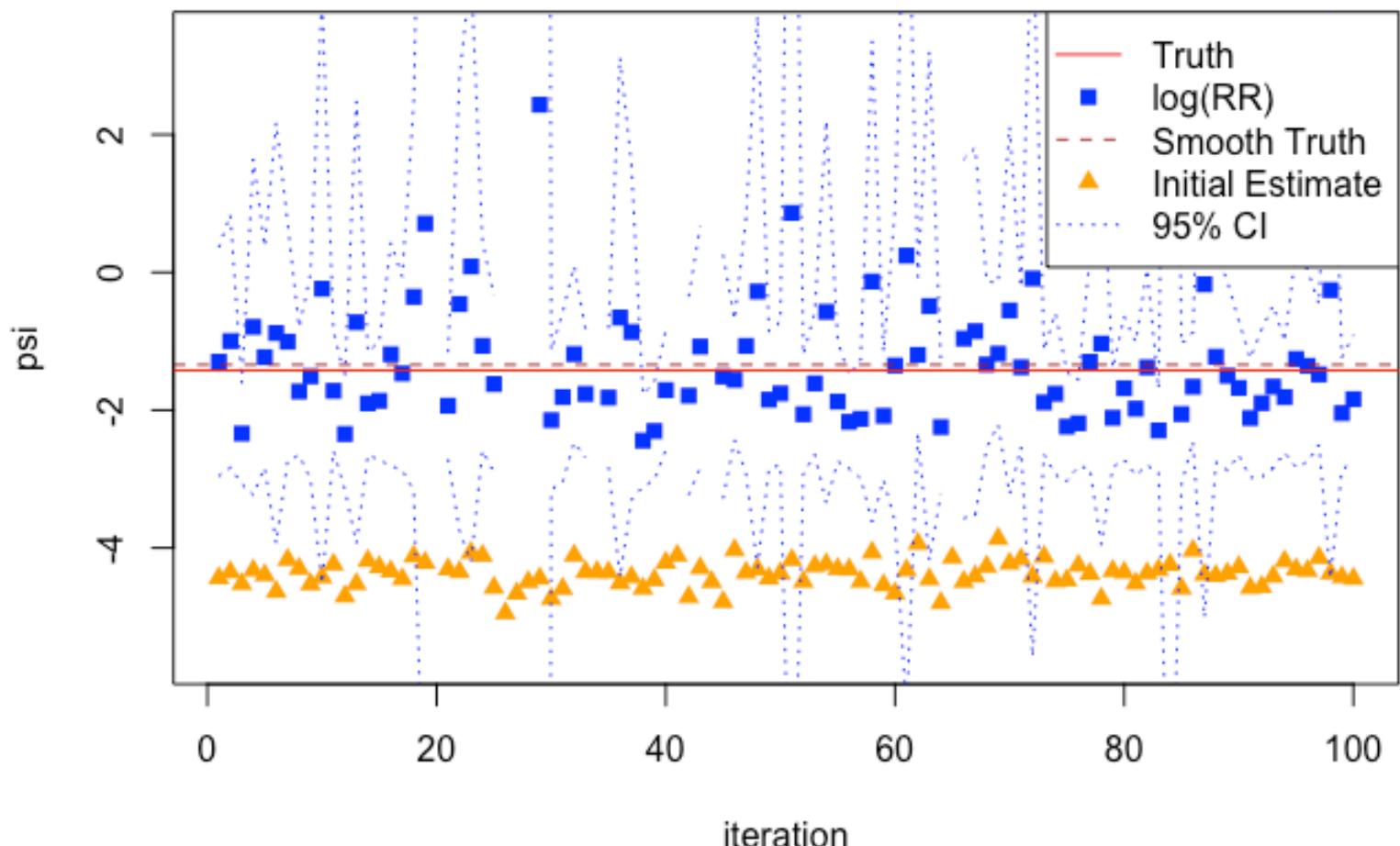
s1=1 Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=0.25



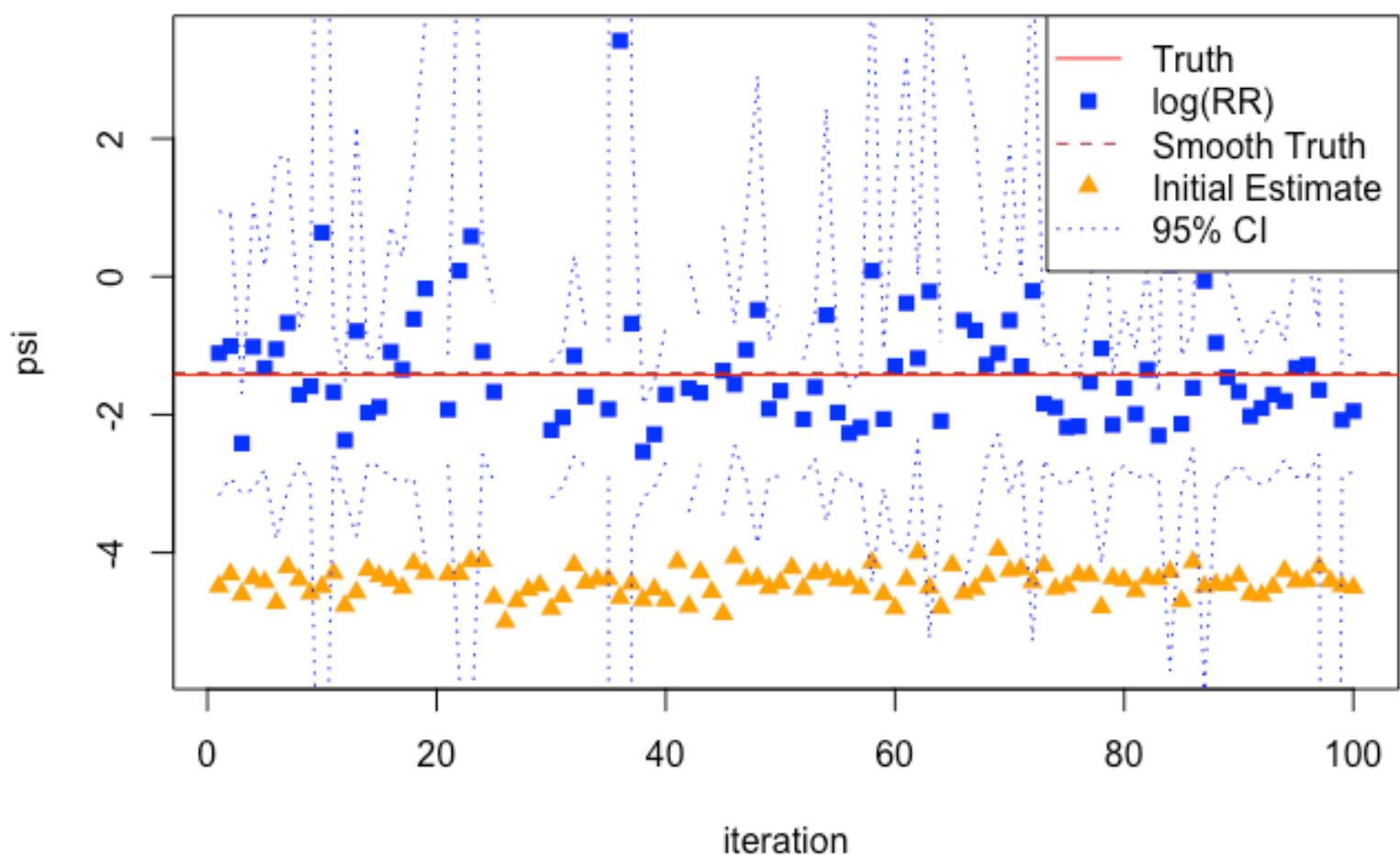
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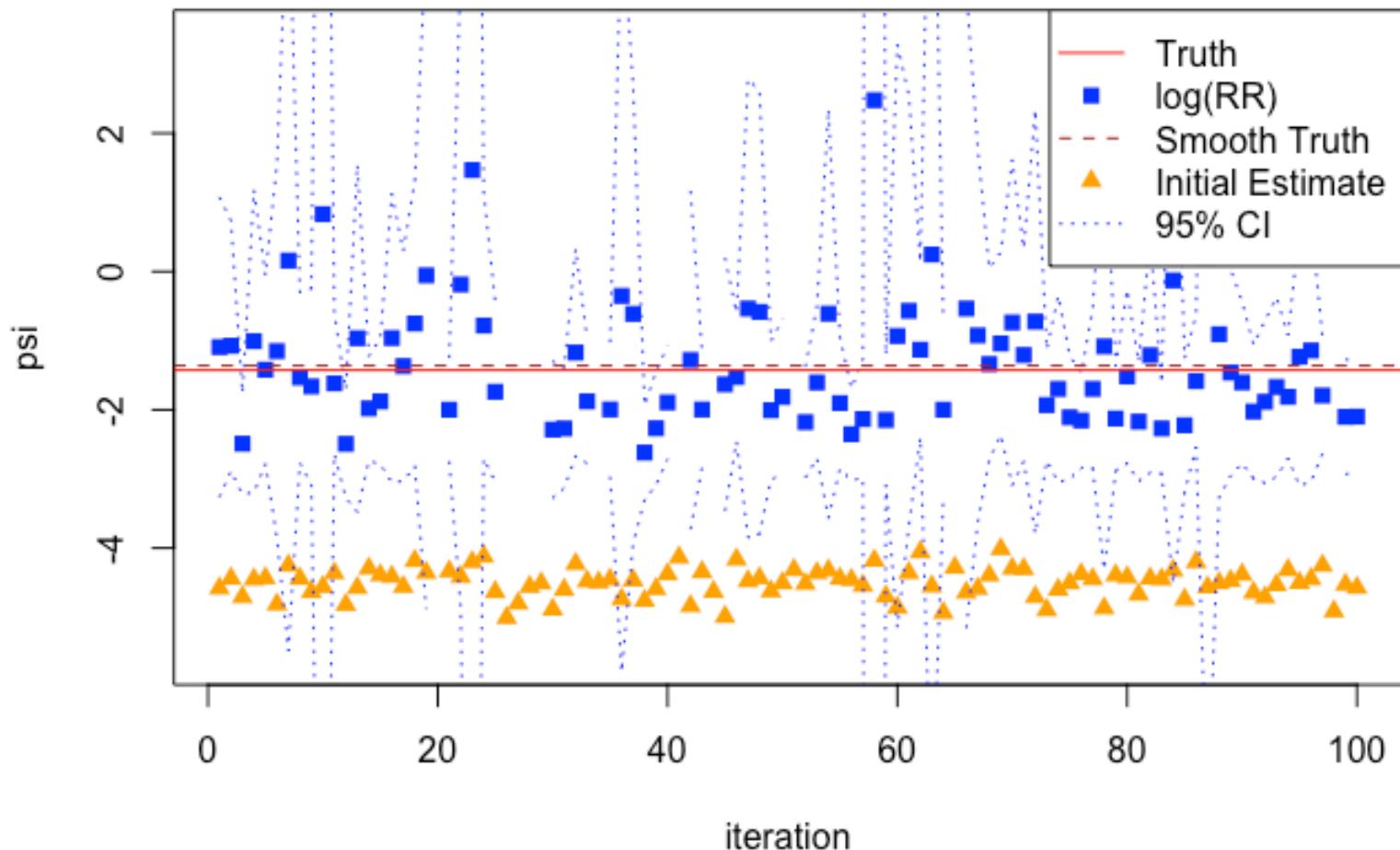
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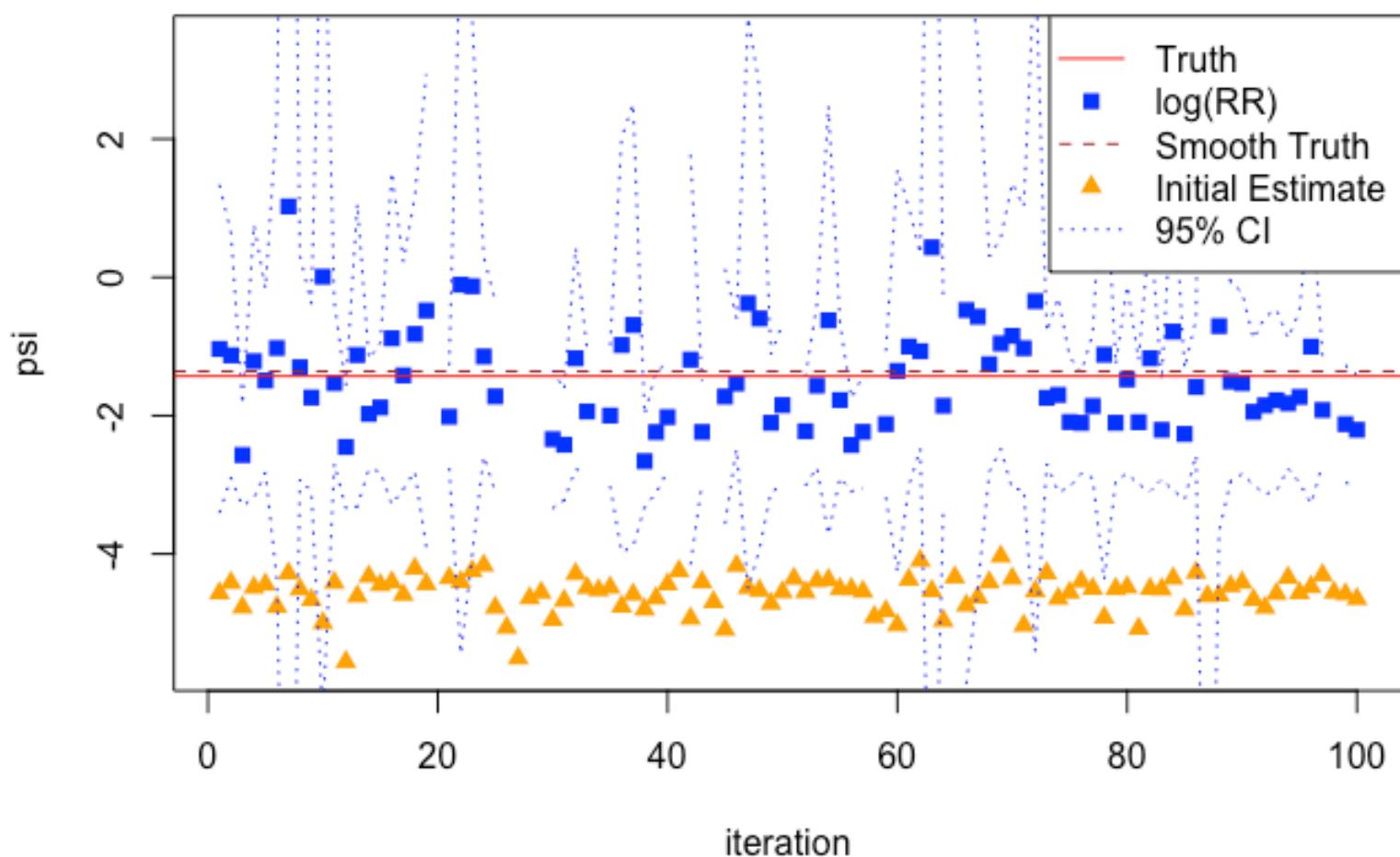
$s_1=0.2$ Null case for $\text{cor}(S_1, W)=0.75$, crossover rate=0.25, sample rate=0.5



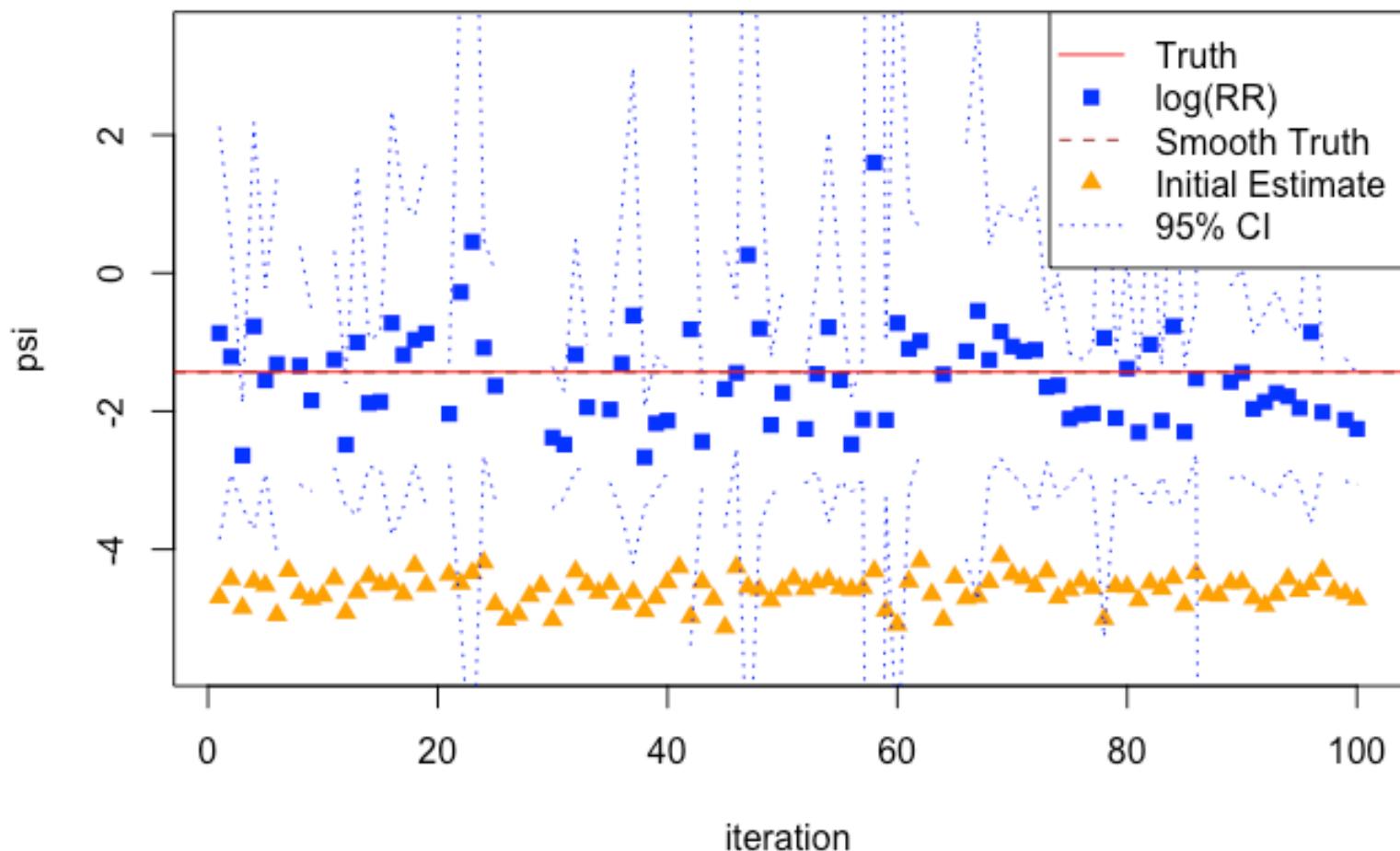
s1=0.3 Null case for cor(S1,W)=0.75, crossover rate=0.25, sample rate=0.5



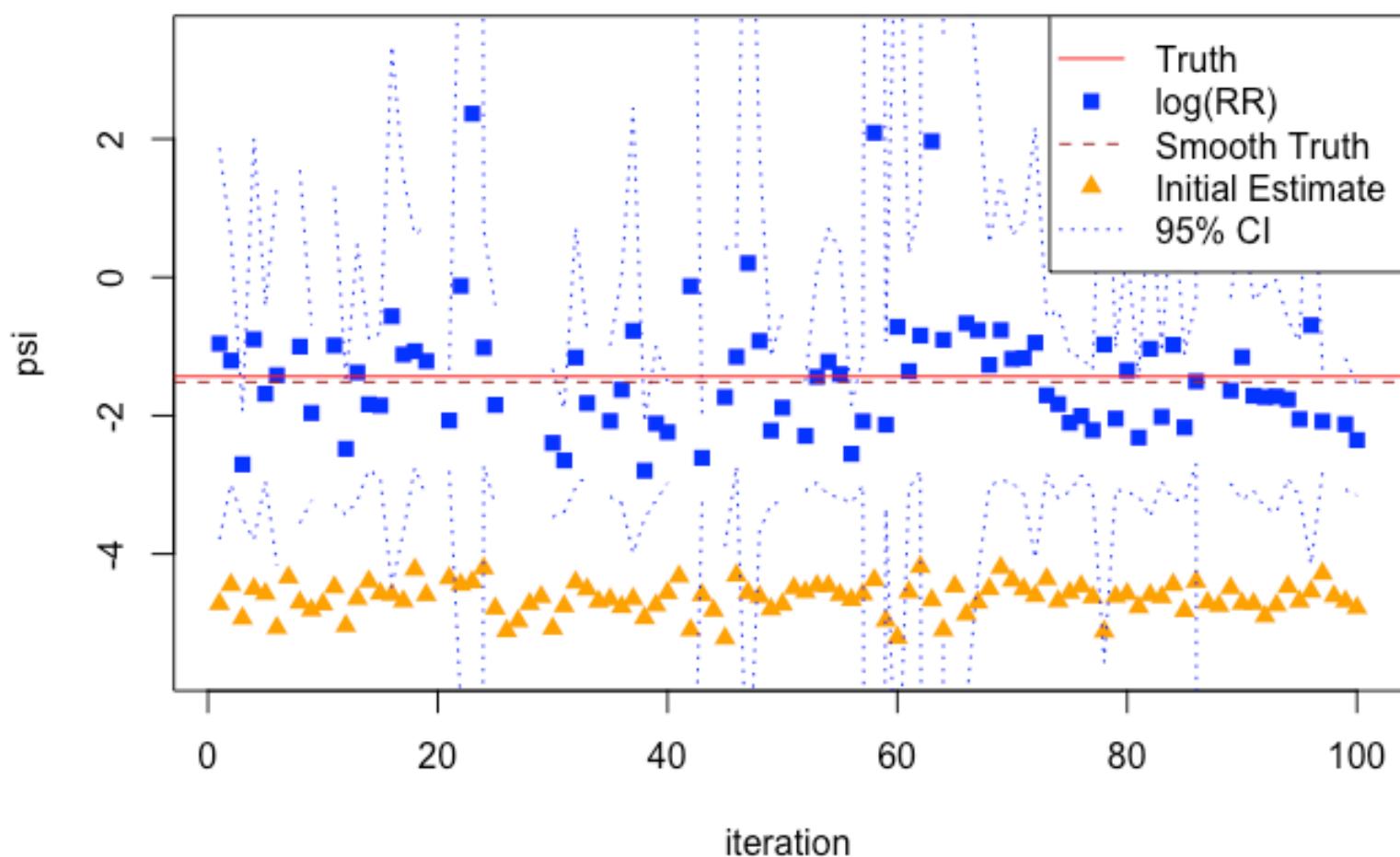
s1=0.4 Null case for cor(S1,W)=0.75, crossover rate=0.25, sample rate=0.5



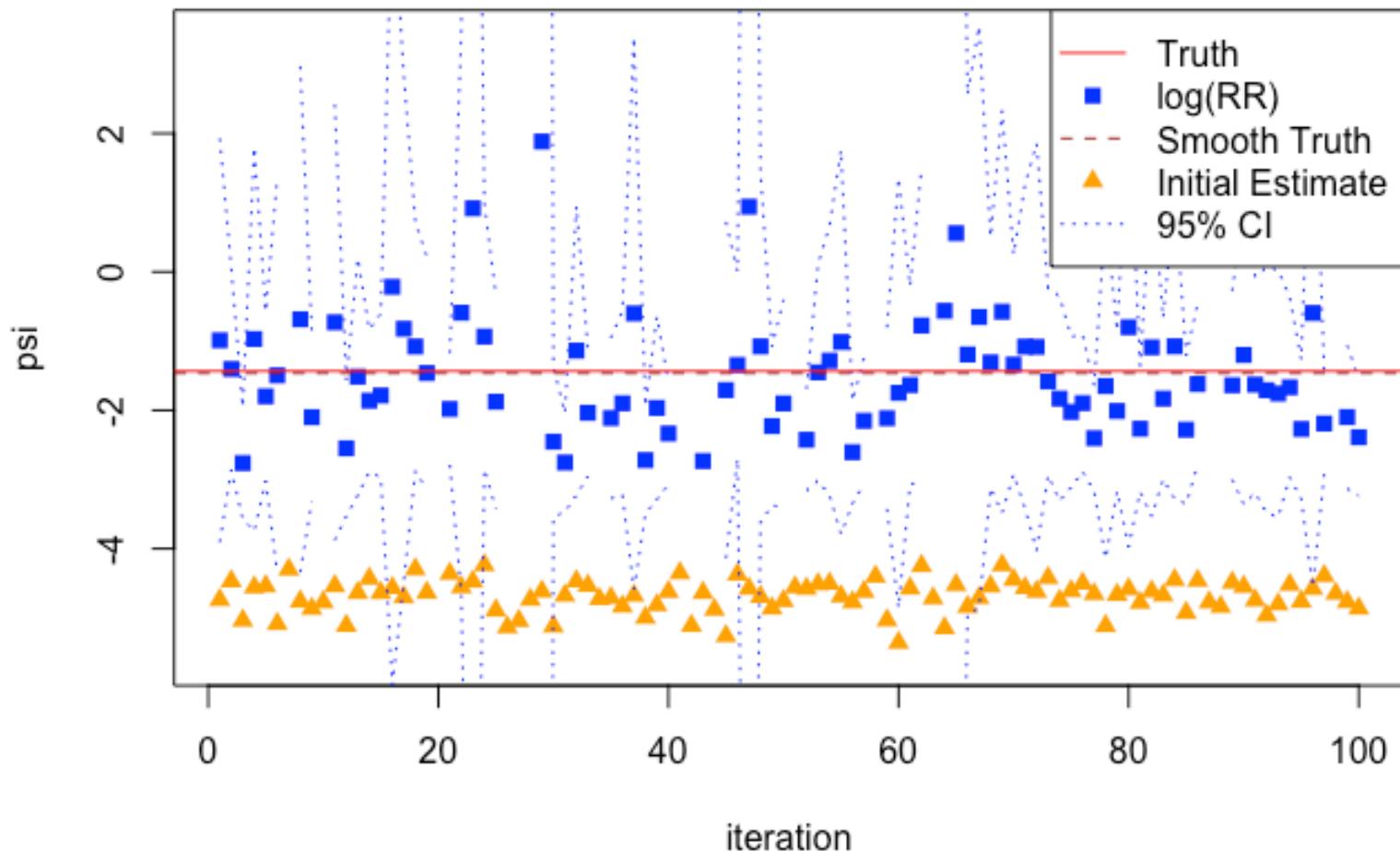
s1=0.5 Null case for cor(S1,W)=0.75, crossover rate=0.25, sample rate=0.5



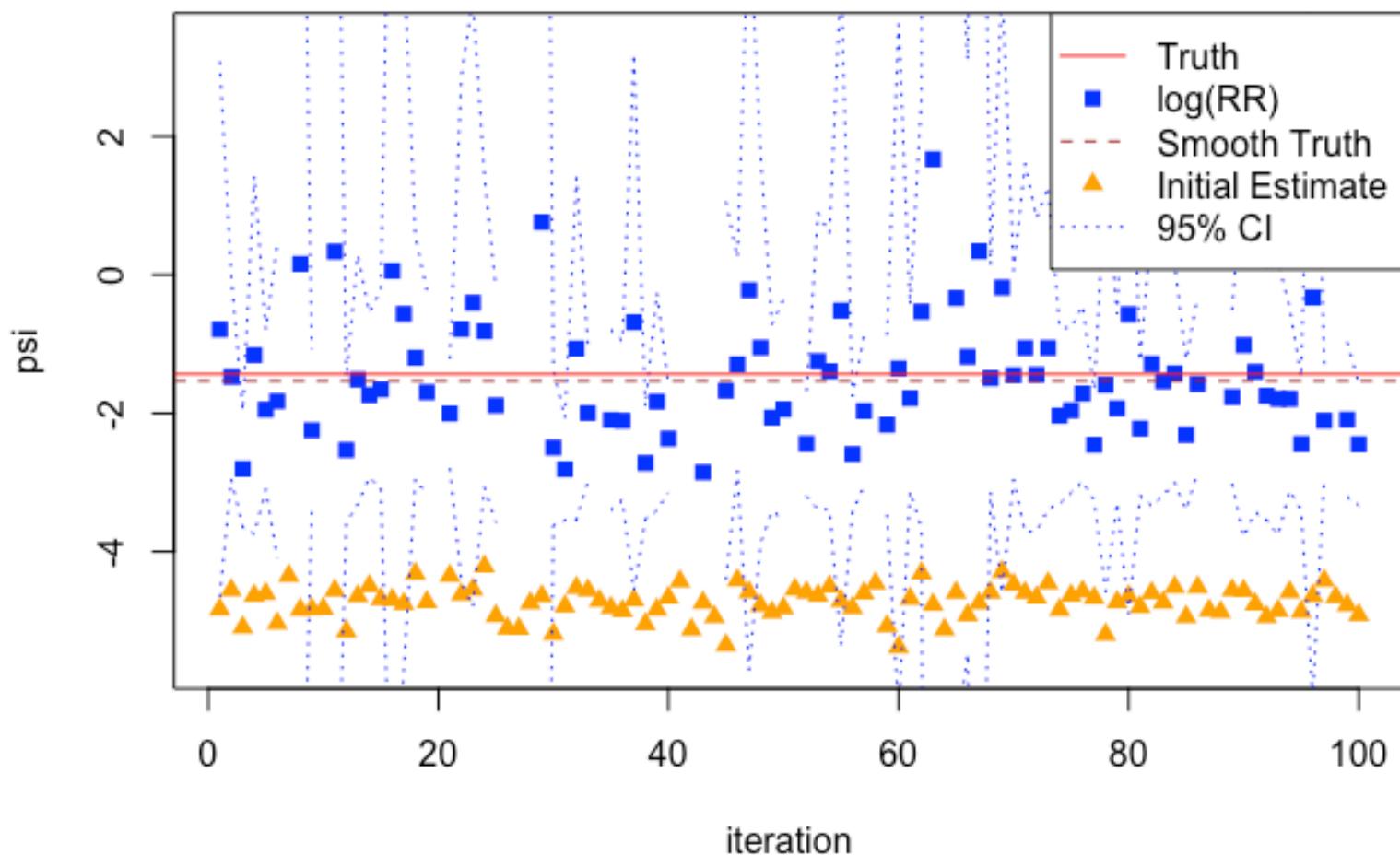
s1=0.6 Null case for cor(S1,W)=0.75, crossover rate=0.25, sample rate=0.5



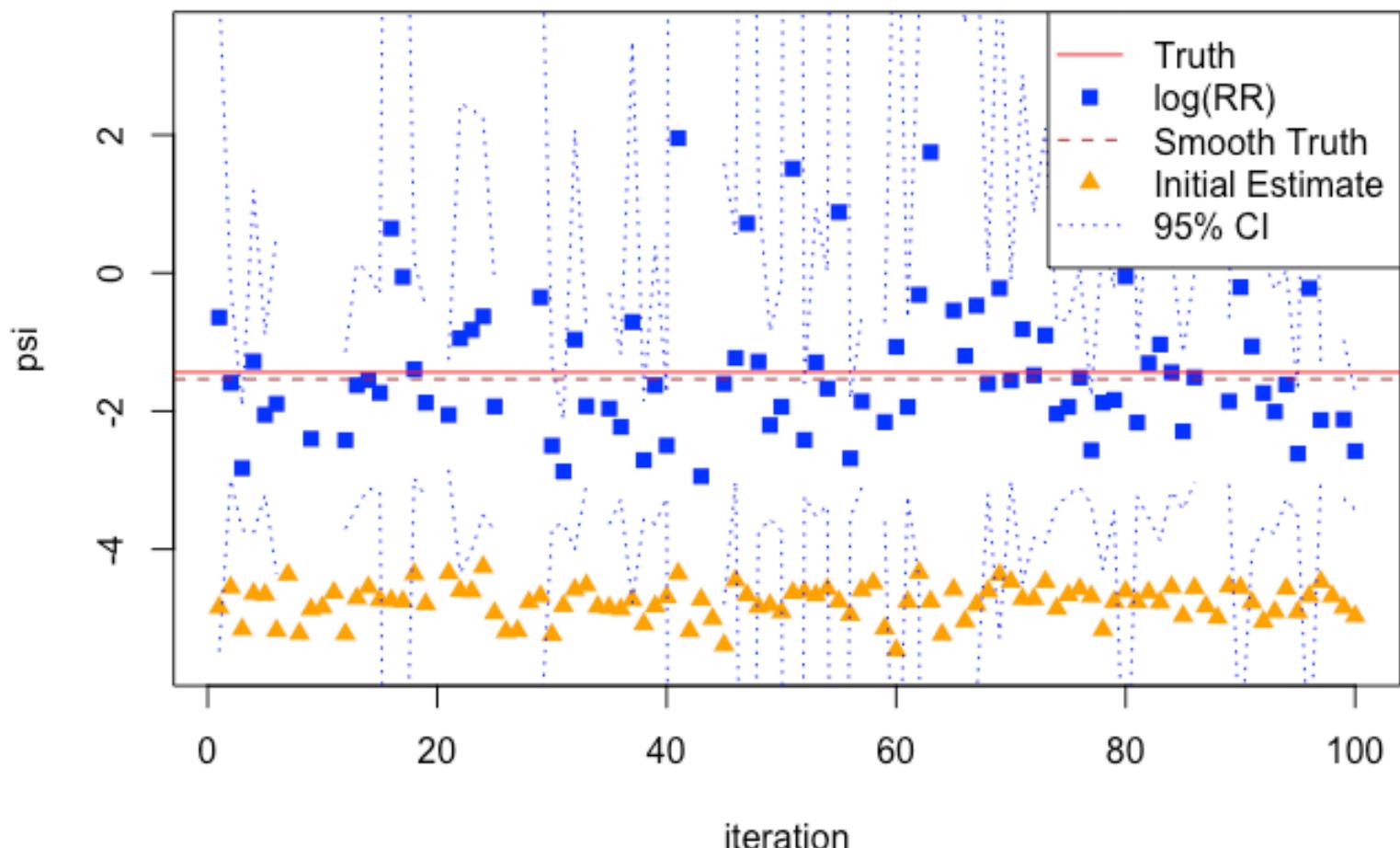
s1=0.7 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=0.5



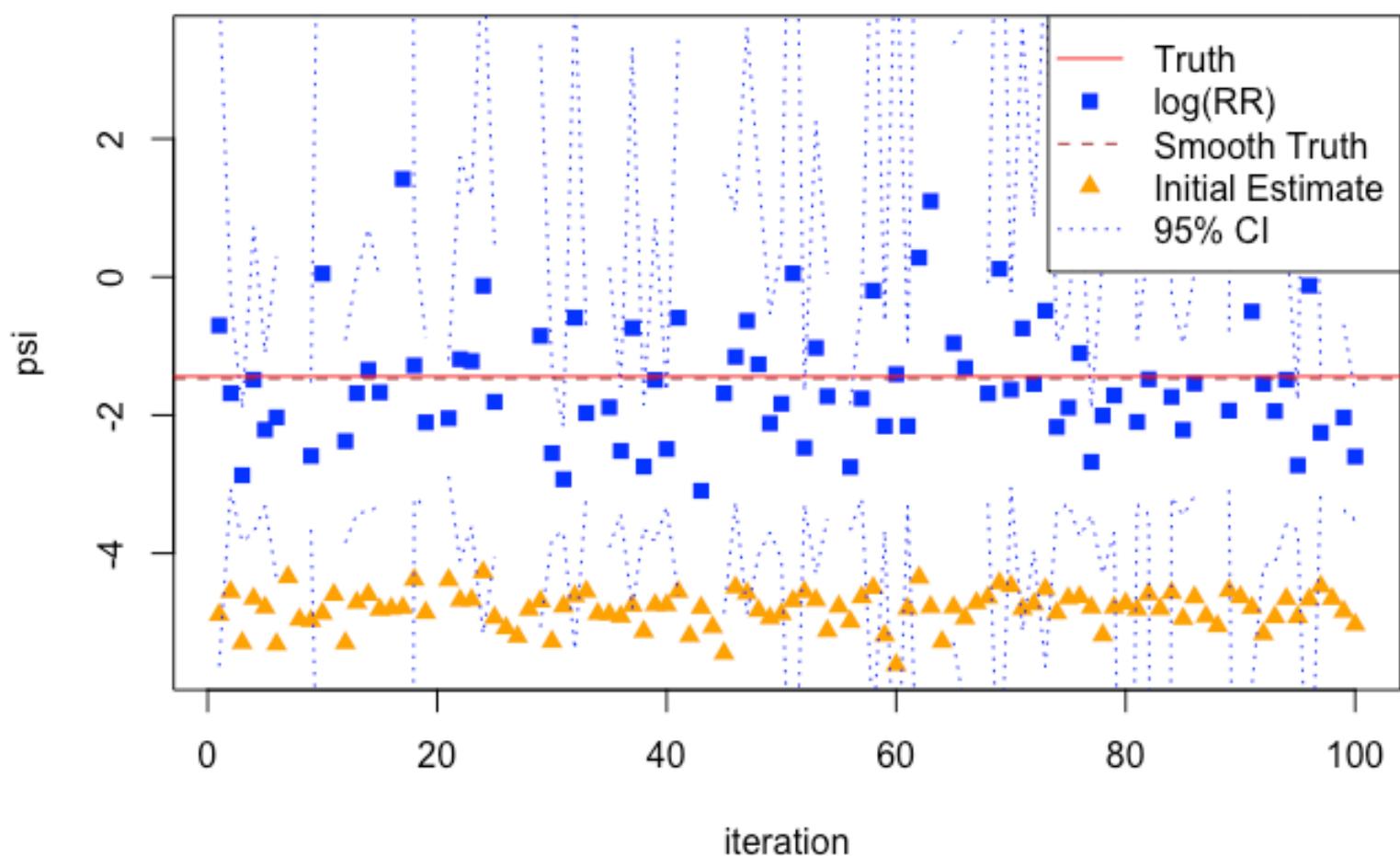
s1=0.8 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=0.5



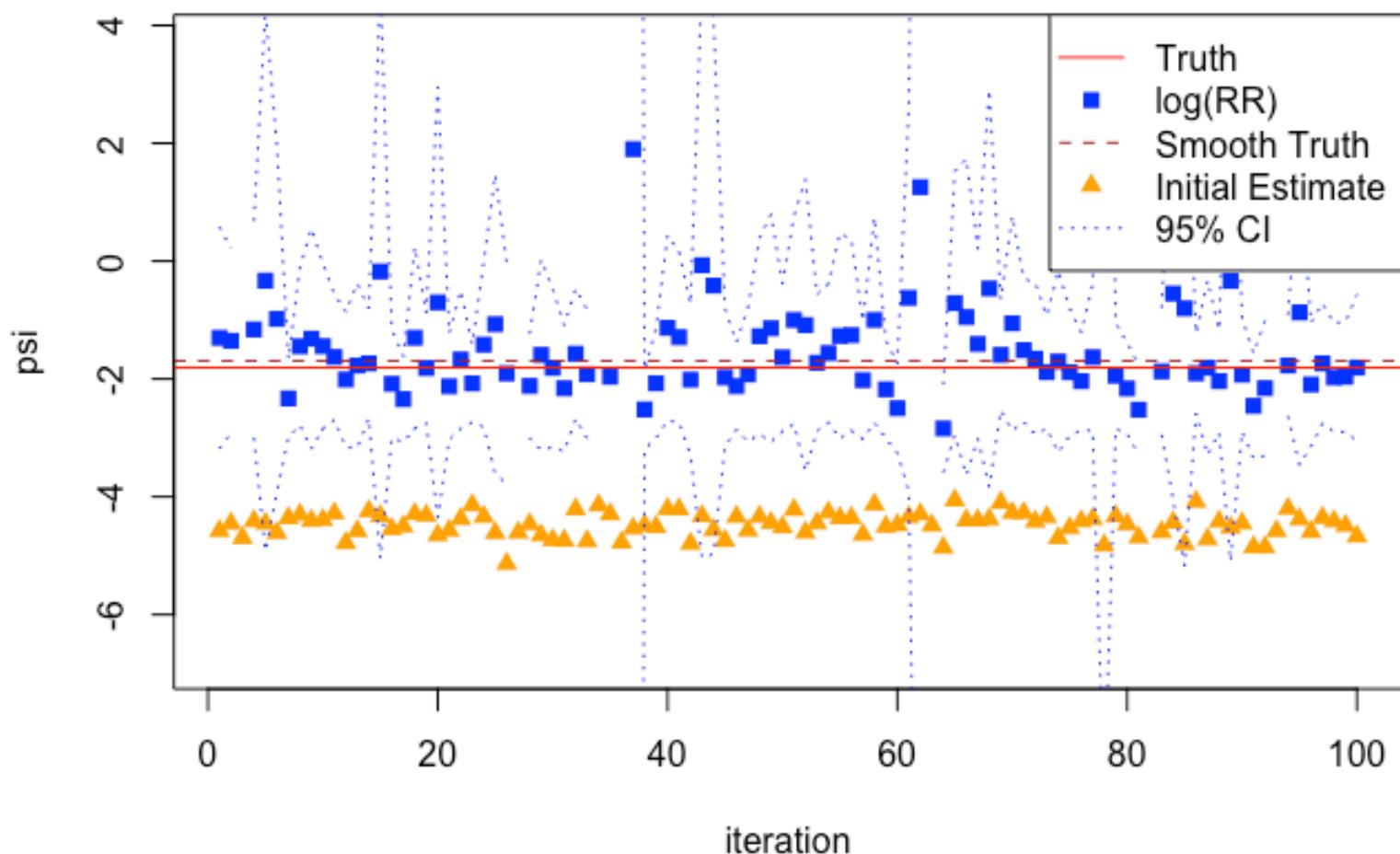
s1=0.9 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=0.5



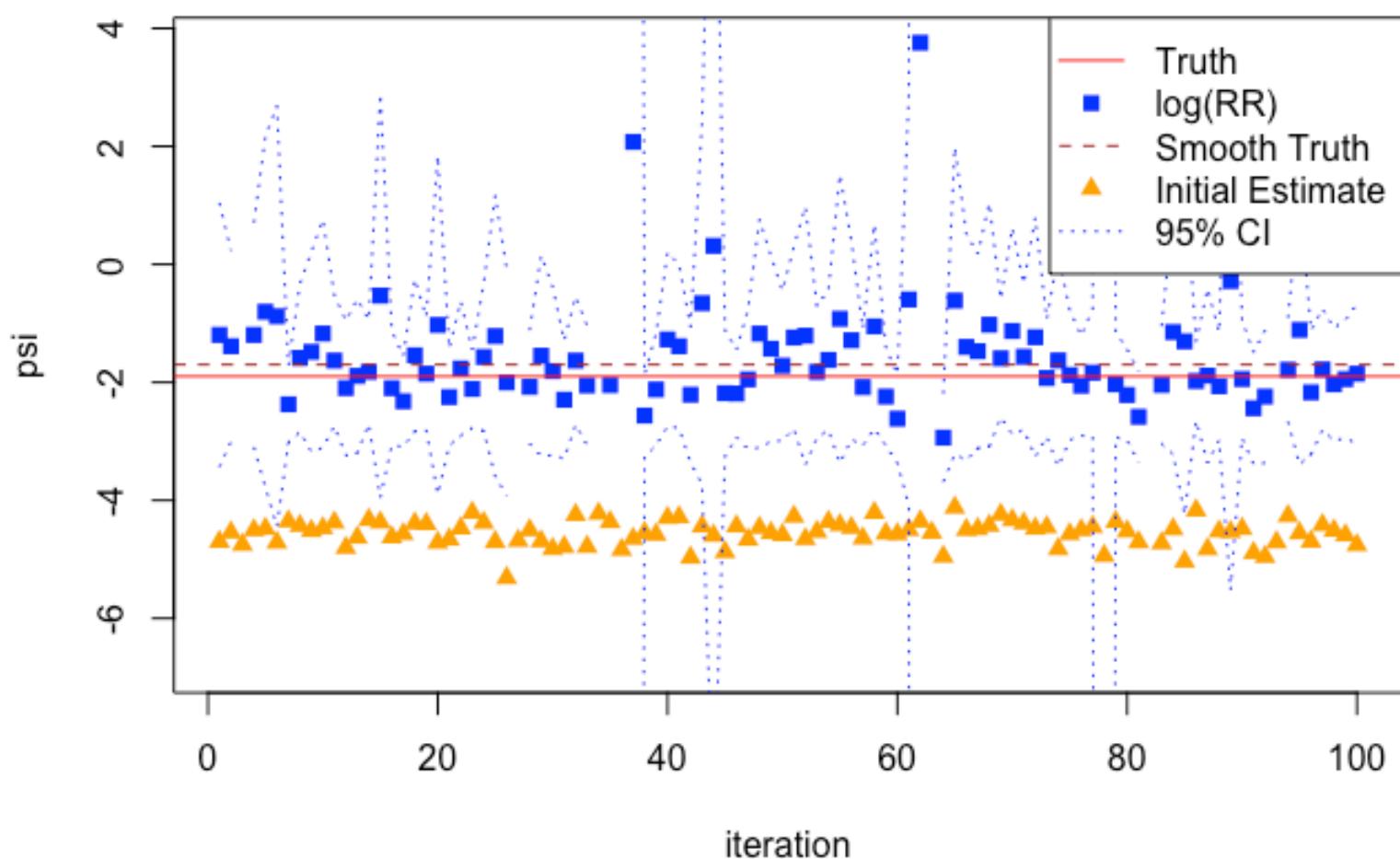
s1=1 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=0.5



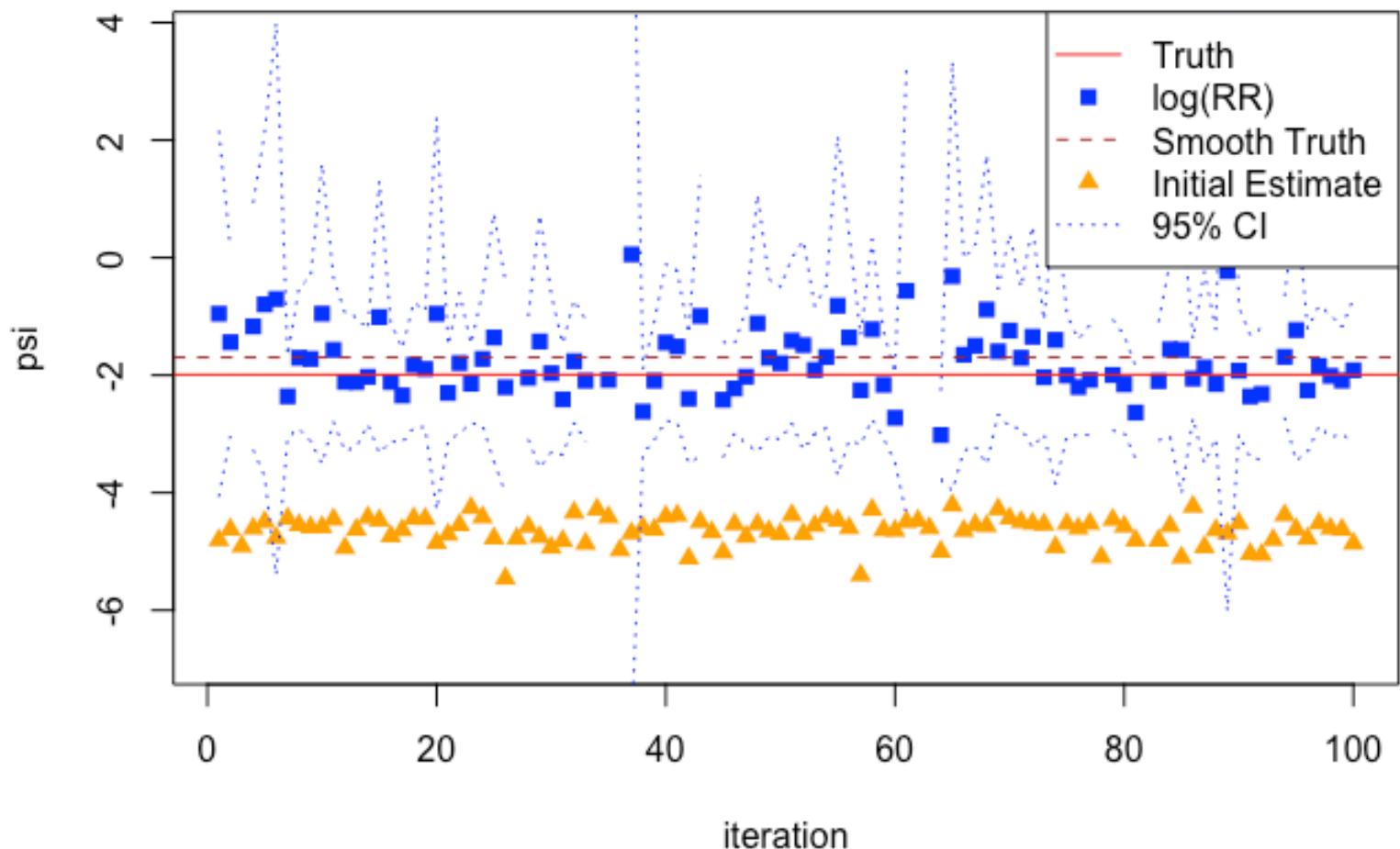
s1=0 Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.25, sample rate=0.5



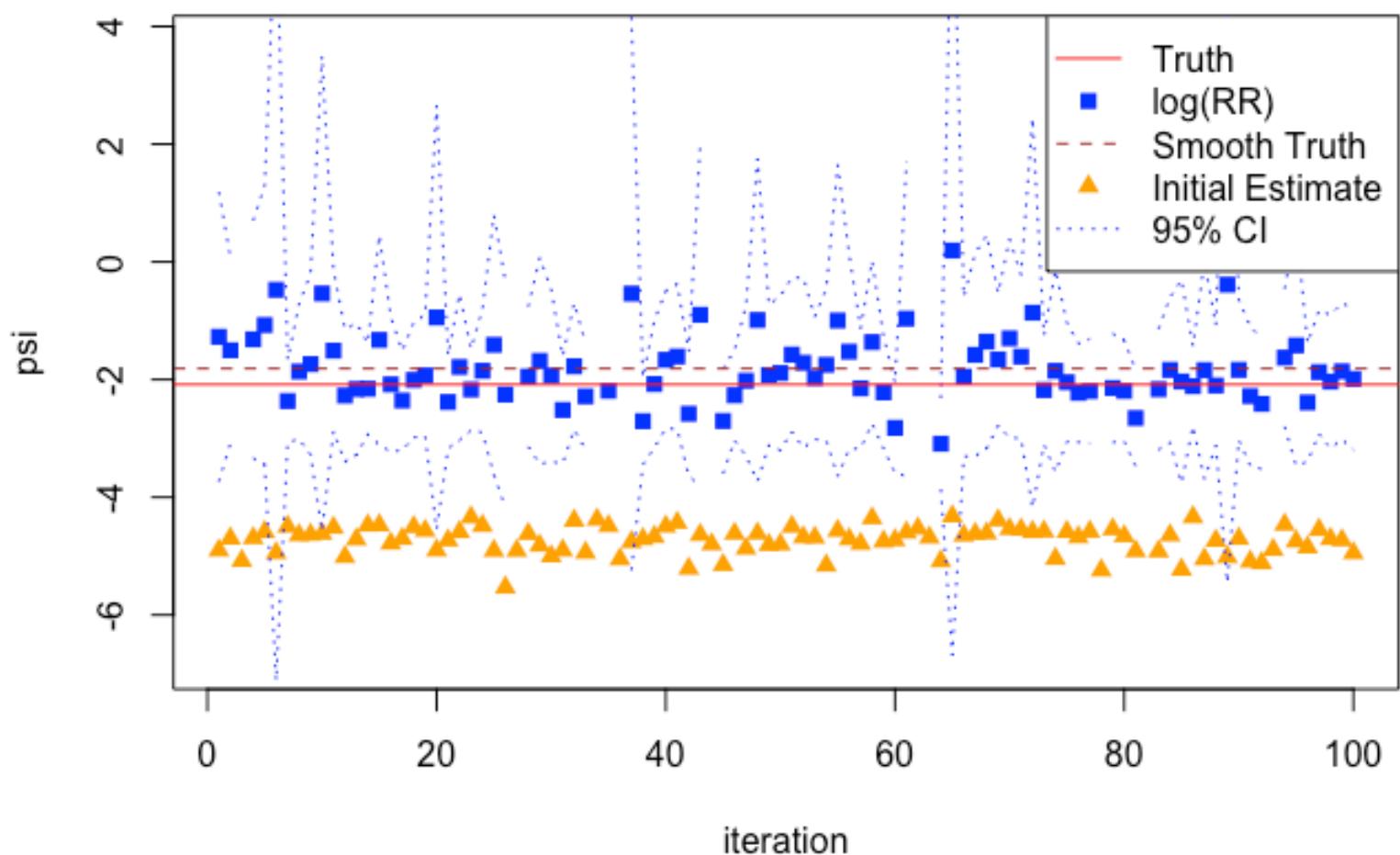
s1=0.1 Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.25, sample rate=0.5



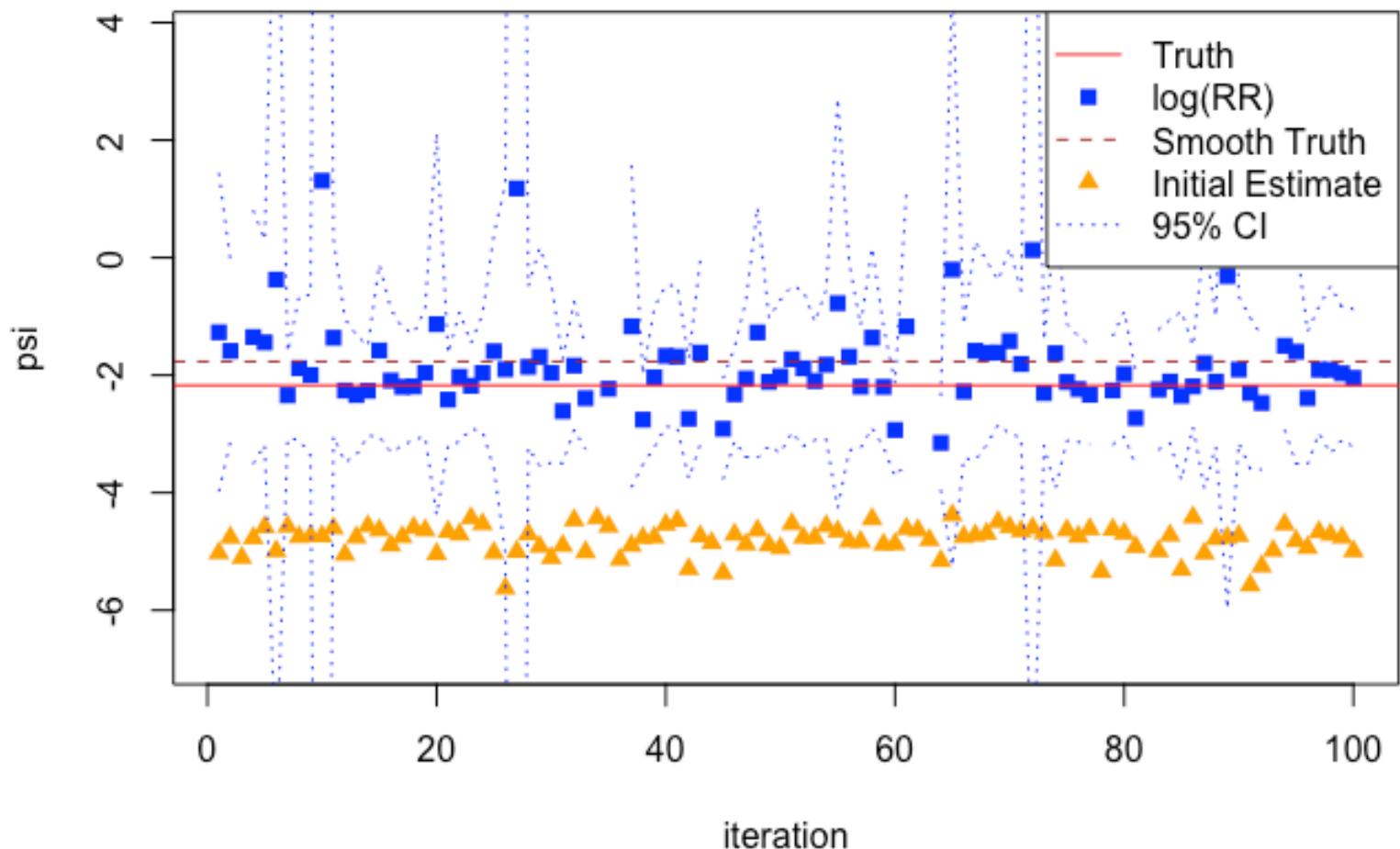
$s_1=0.2$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.25, sample rate=0.5



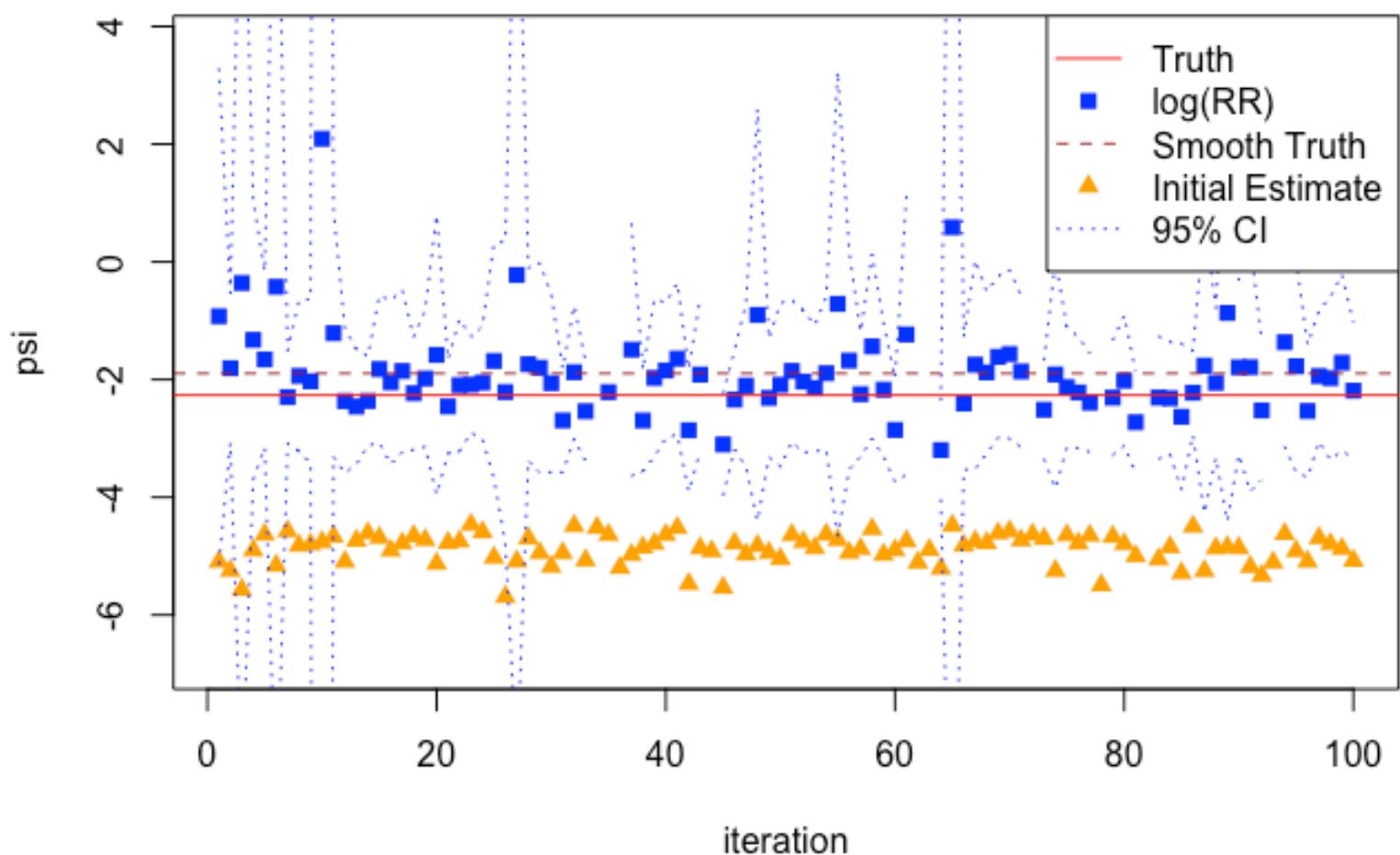
$s_1=0.3$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.25, sample rate=0.5



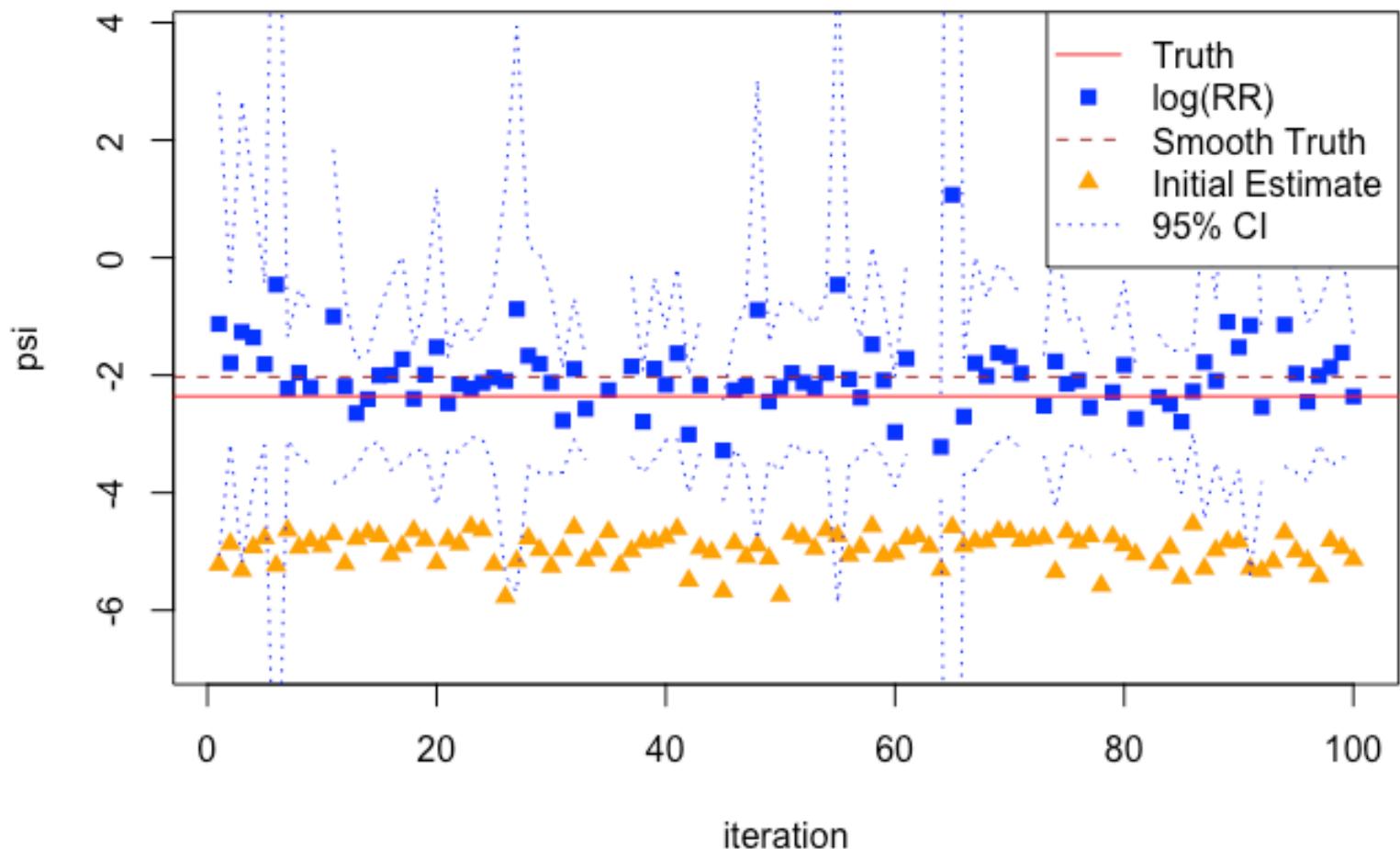
$s_1=0.4$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.25, sample rate=0.5



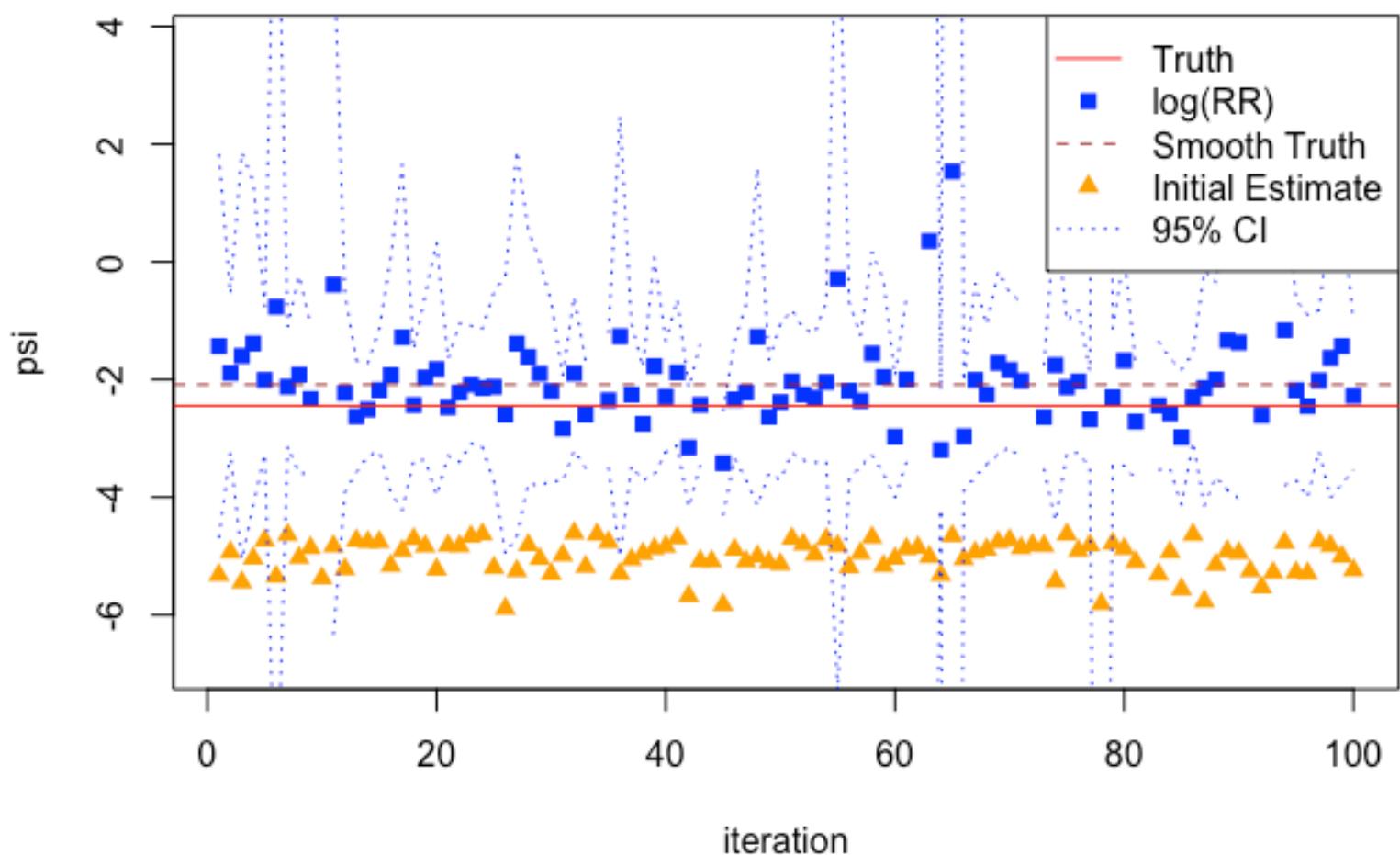
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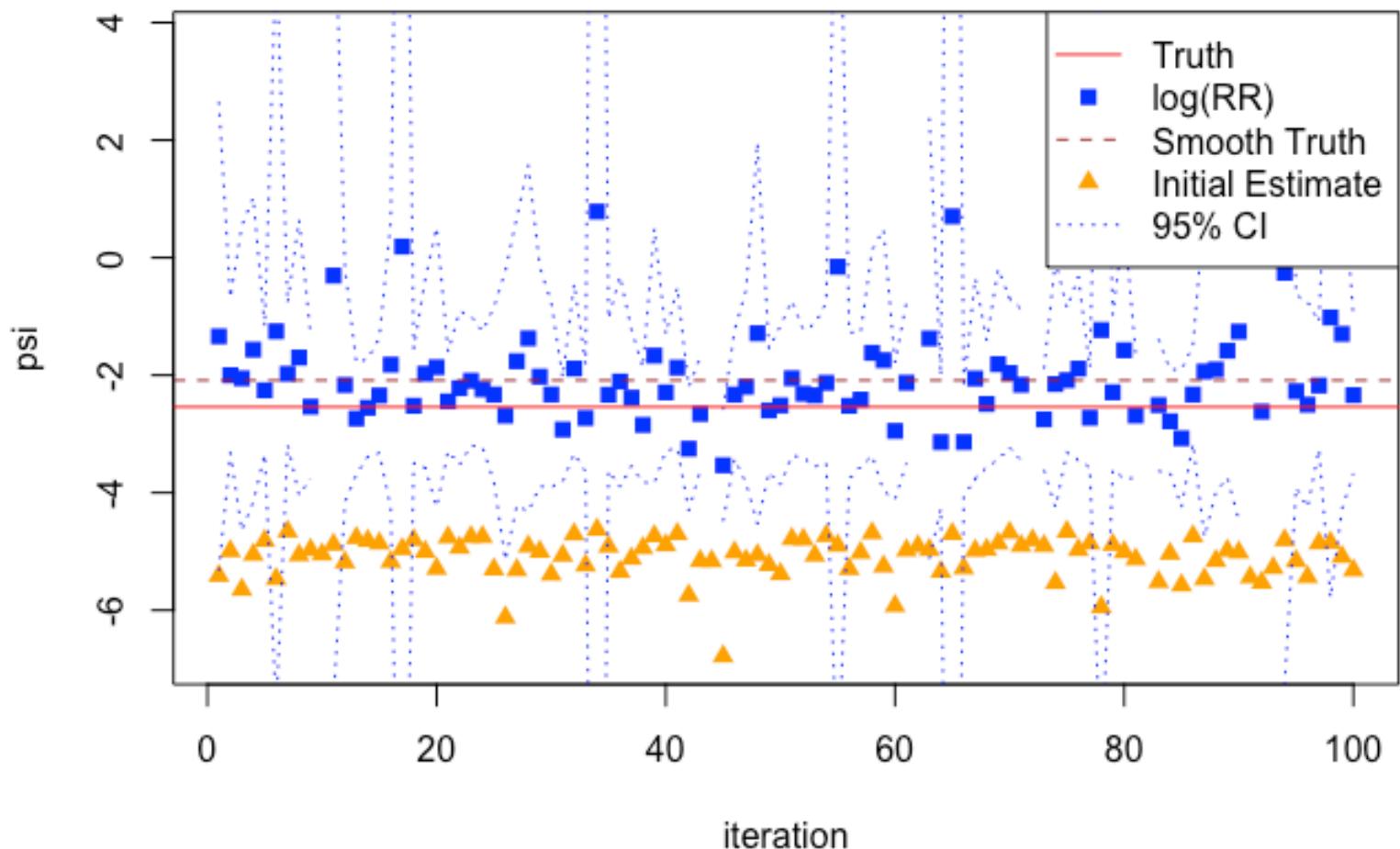
$s_1=0.6$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.25, sample rate=0.5



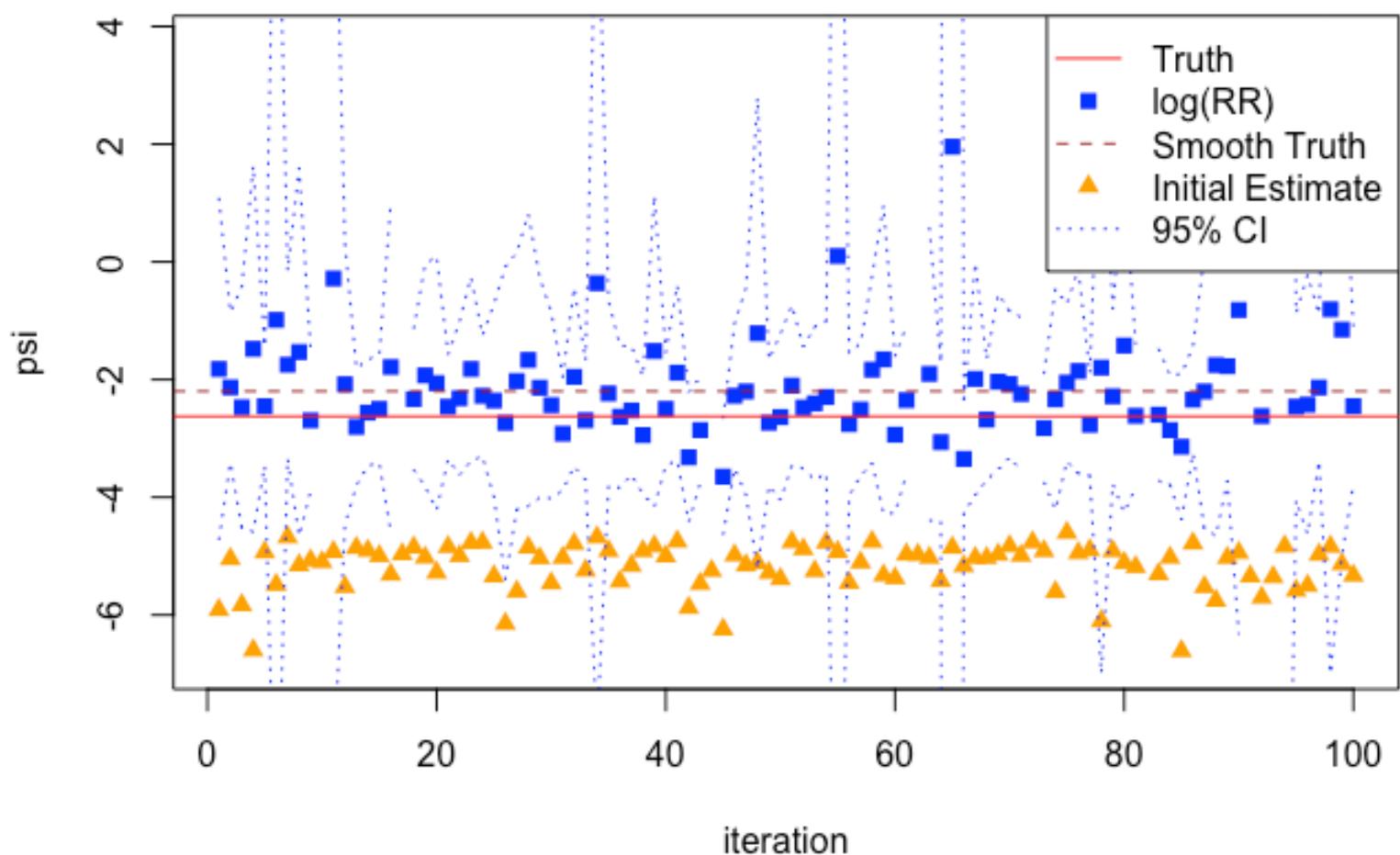
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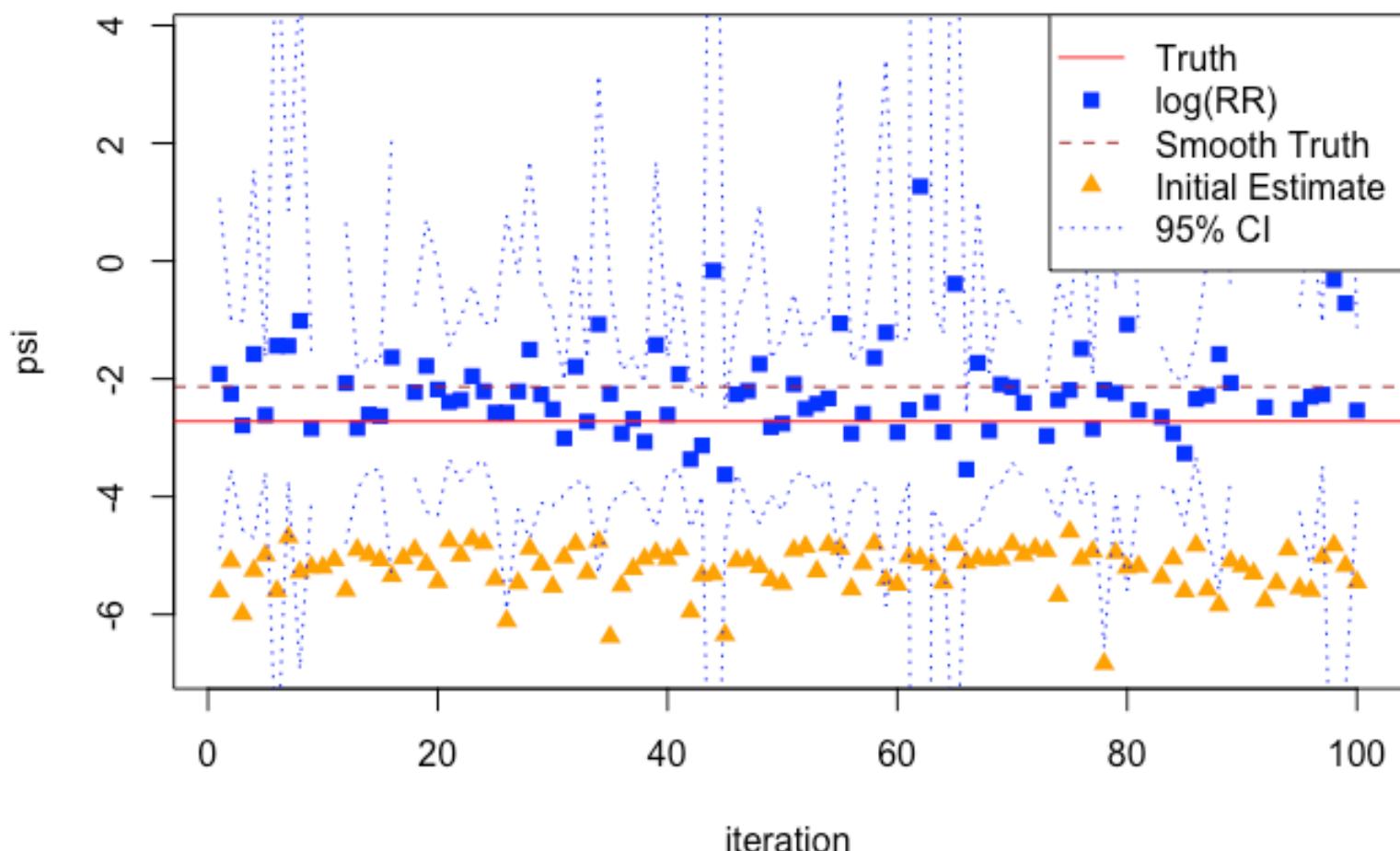
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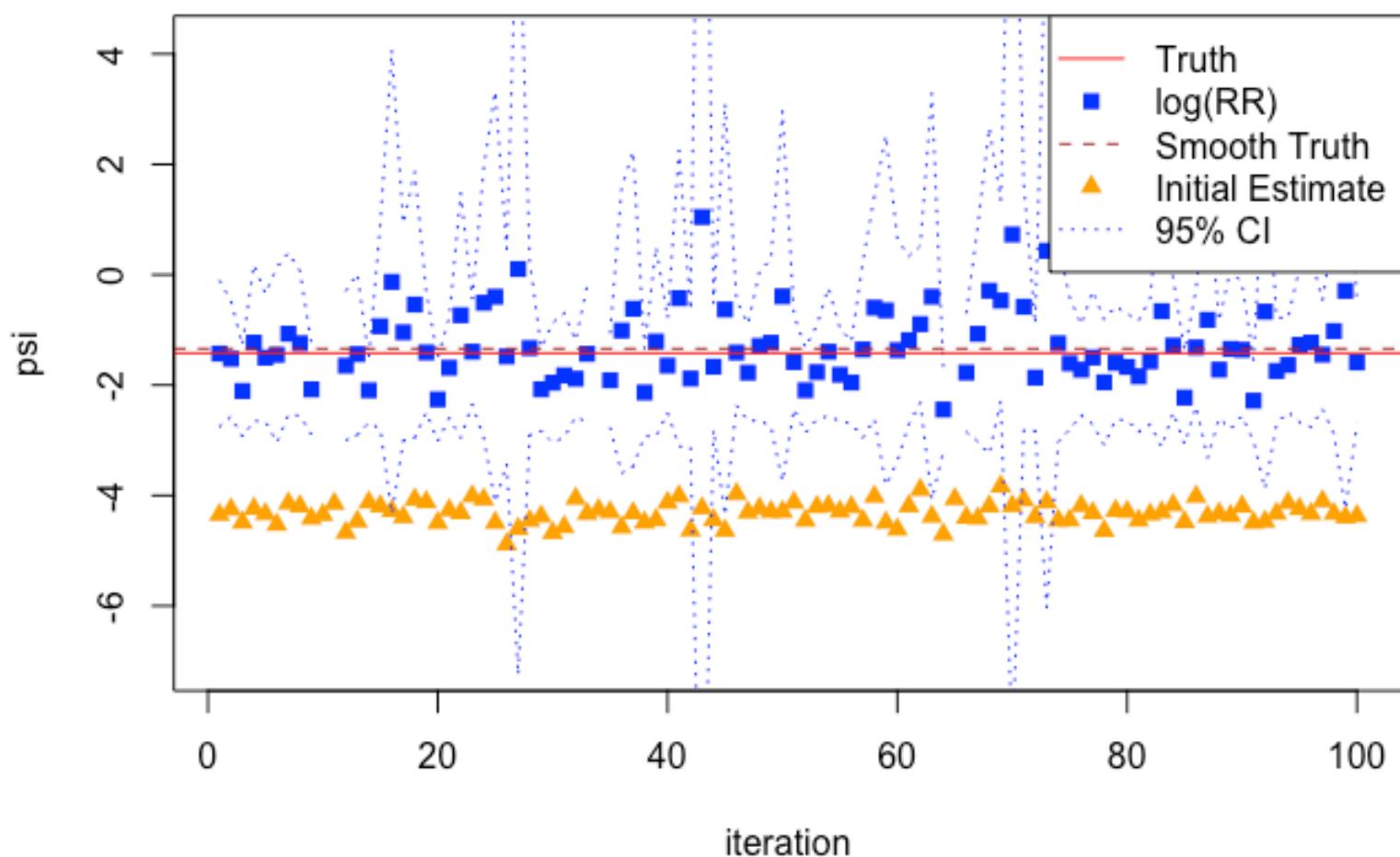
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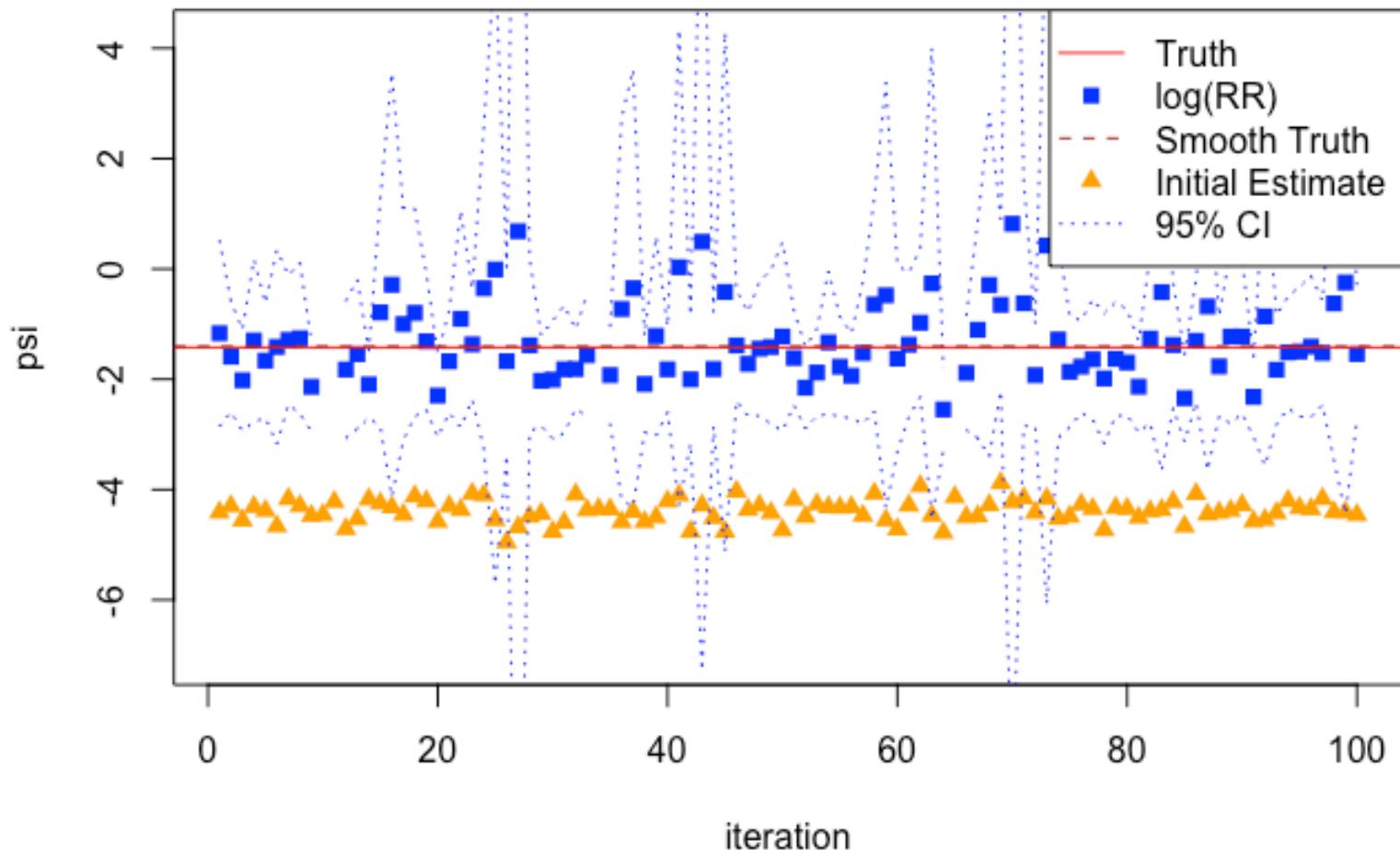
s1=1 Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=0.5



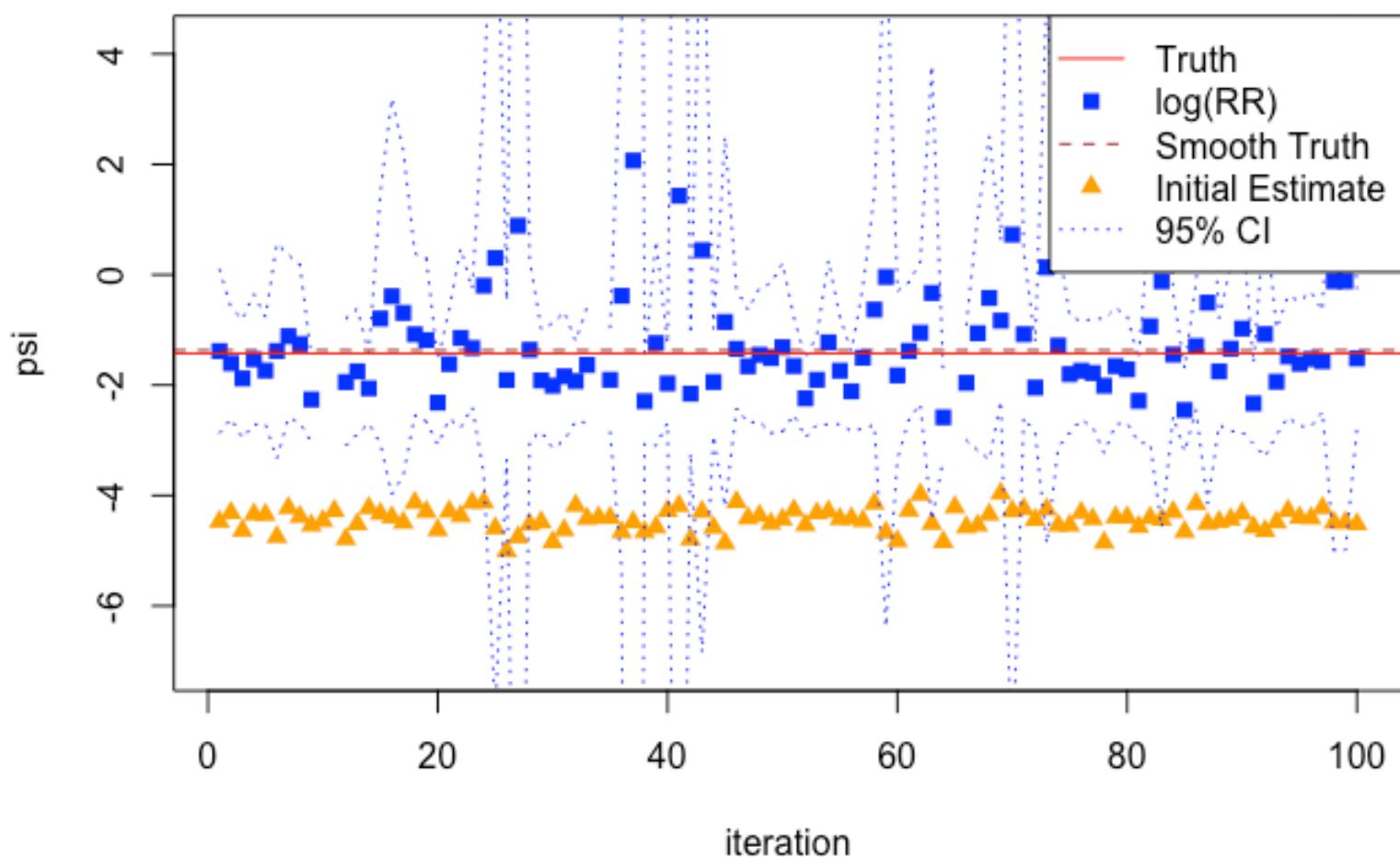
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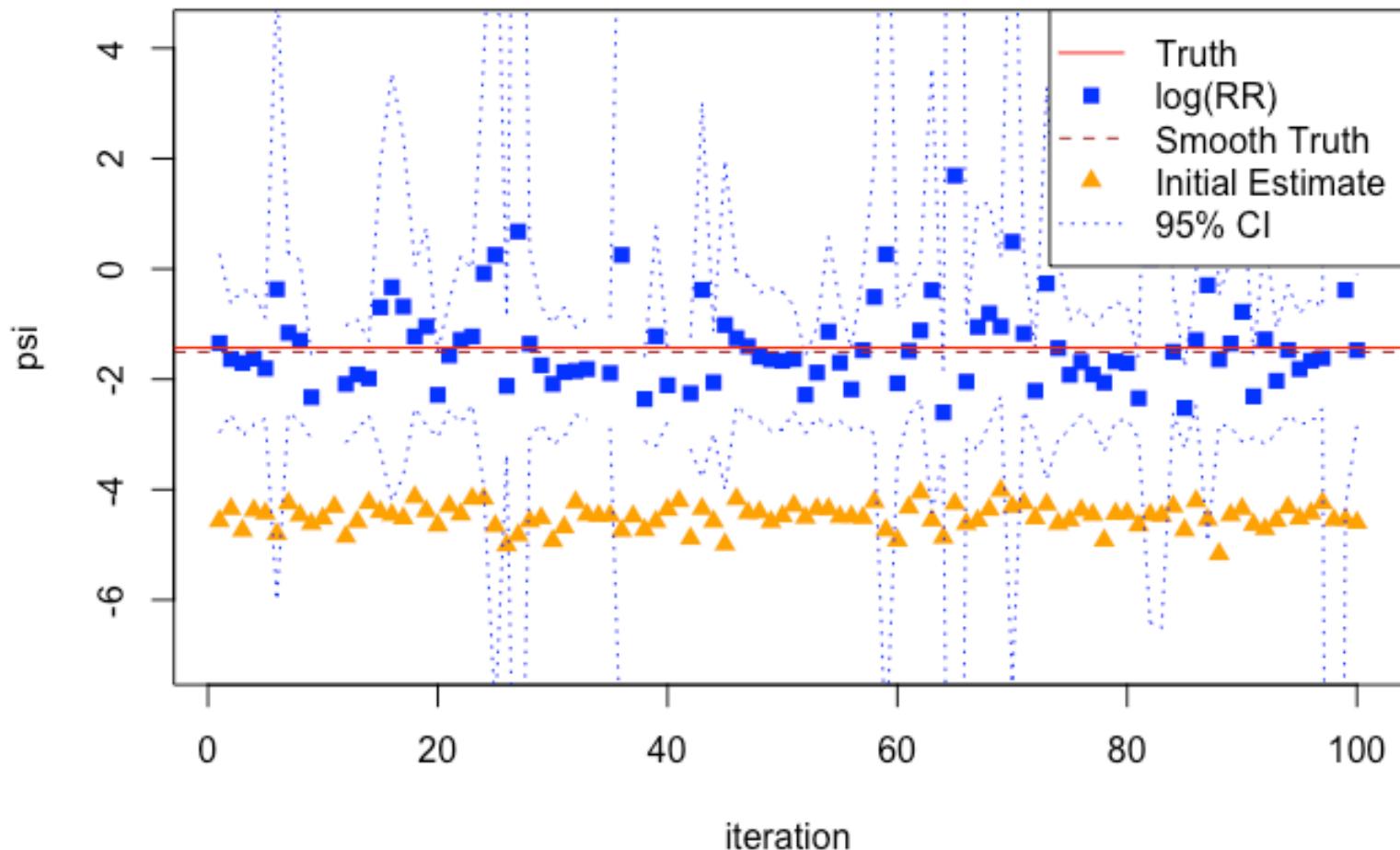
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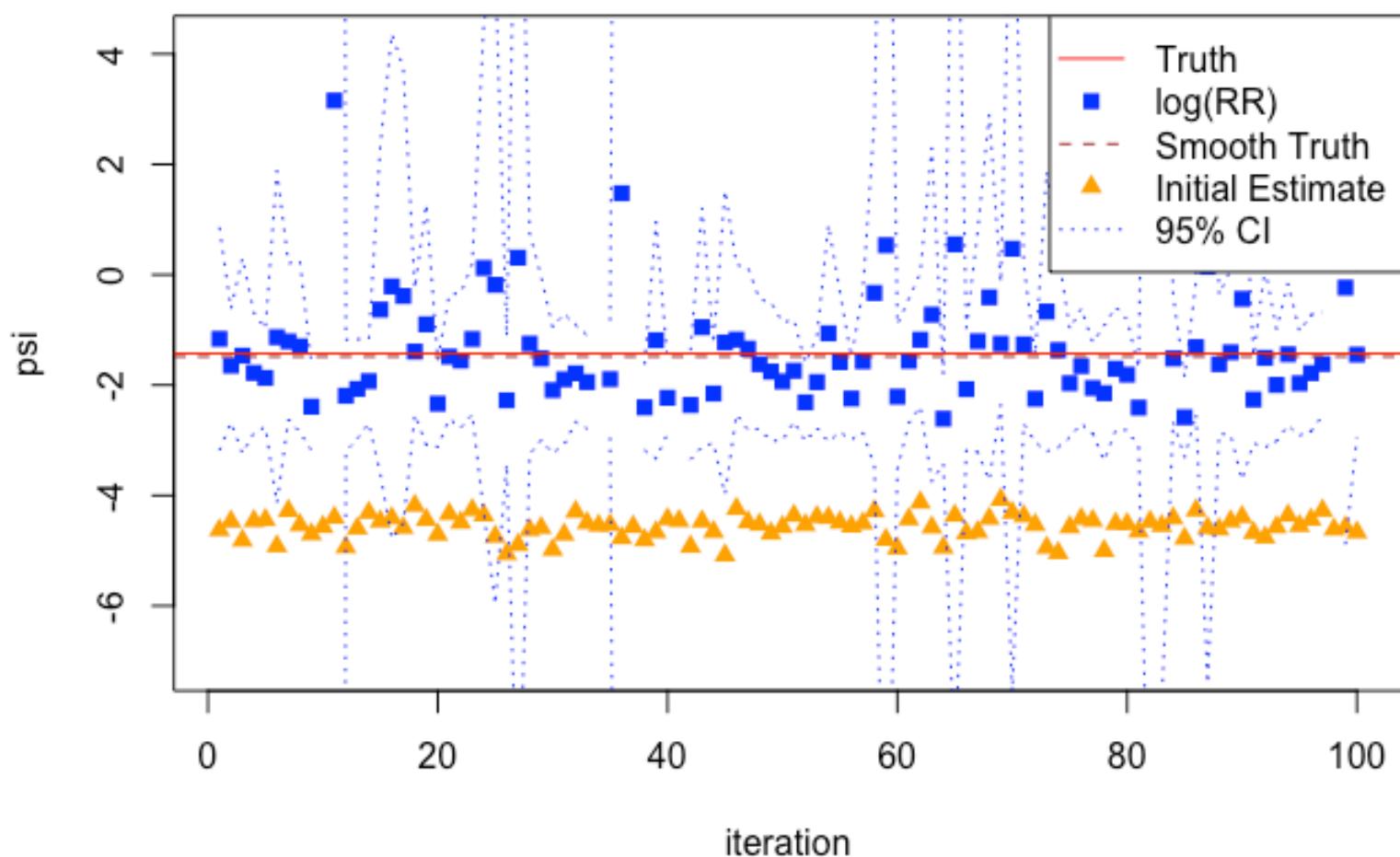
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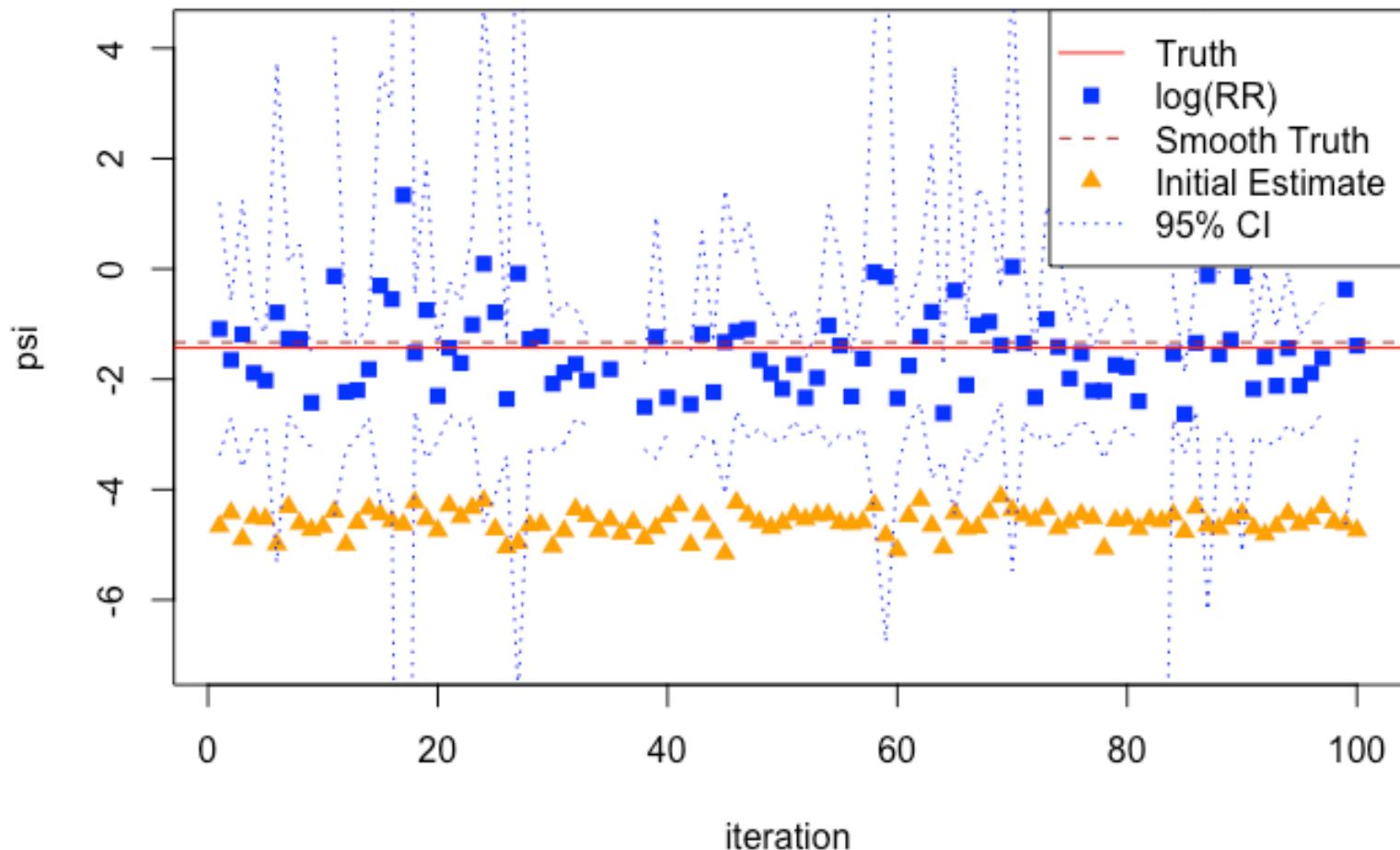
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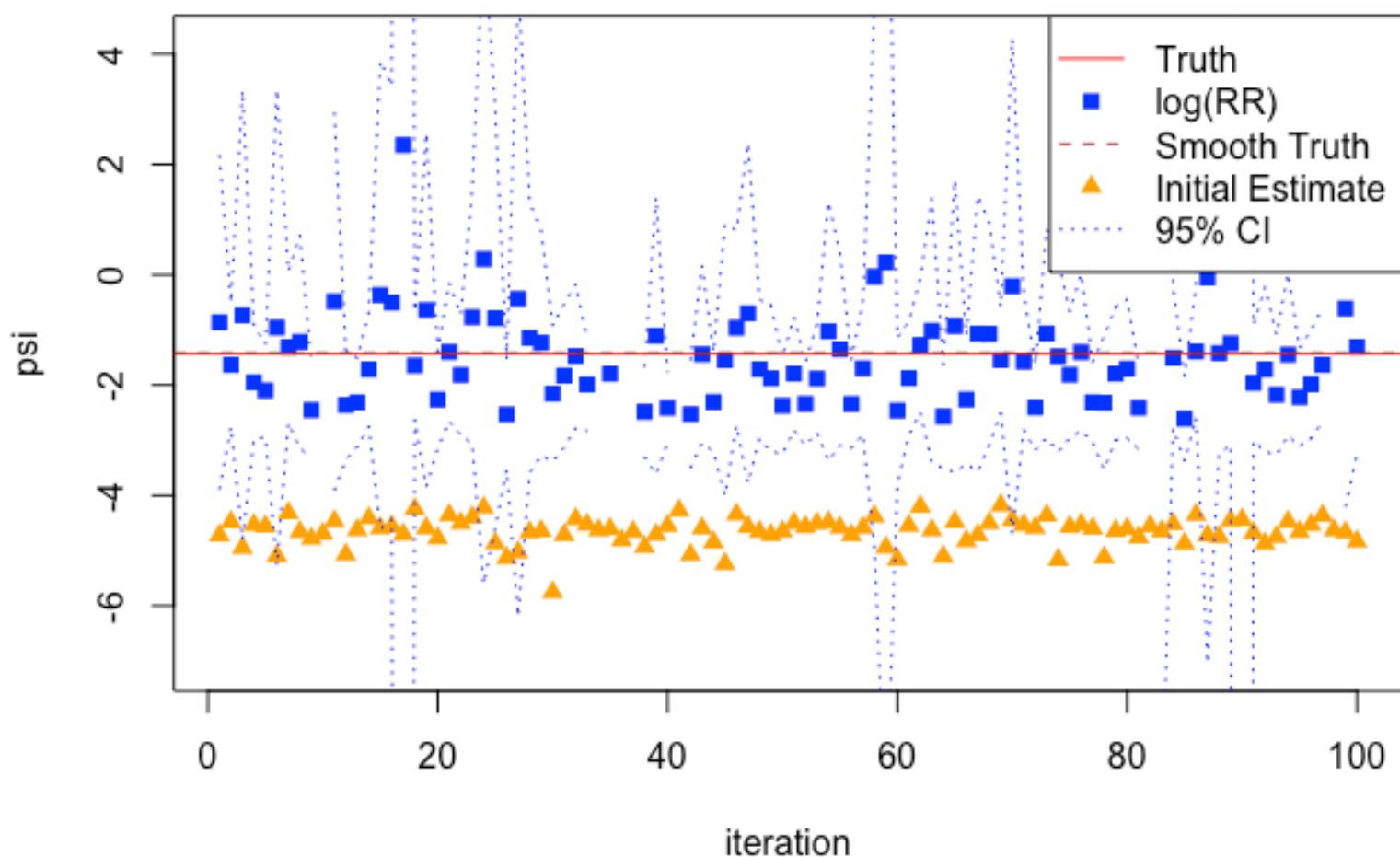
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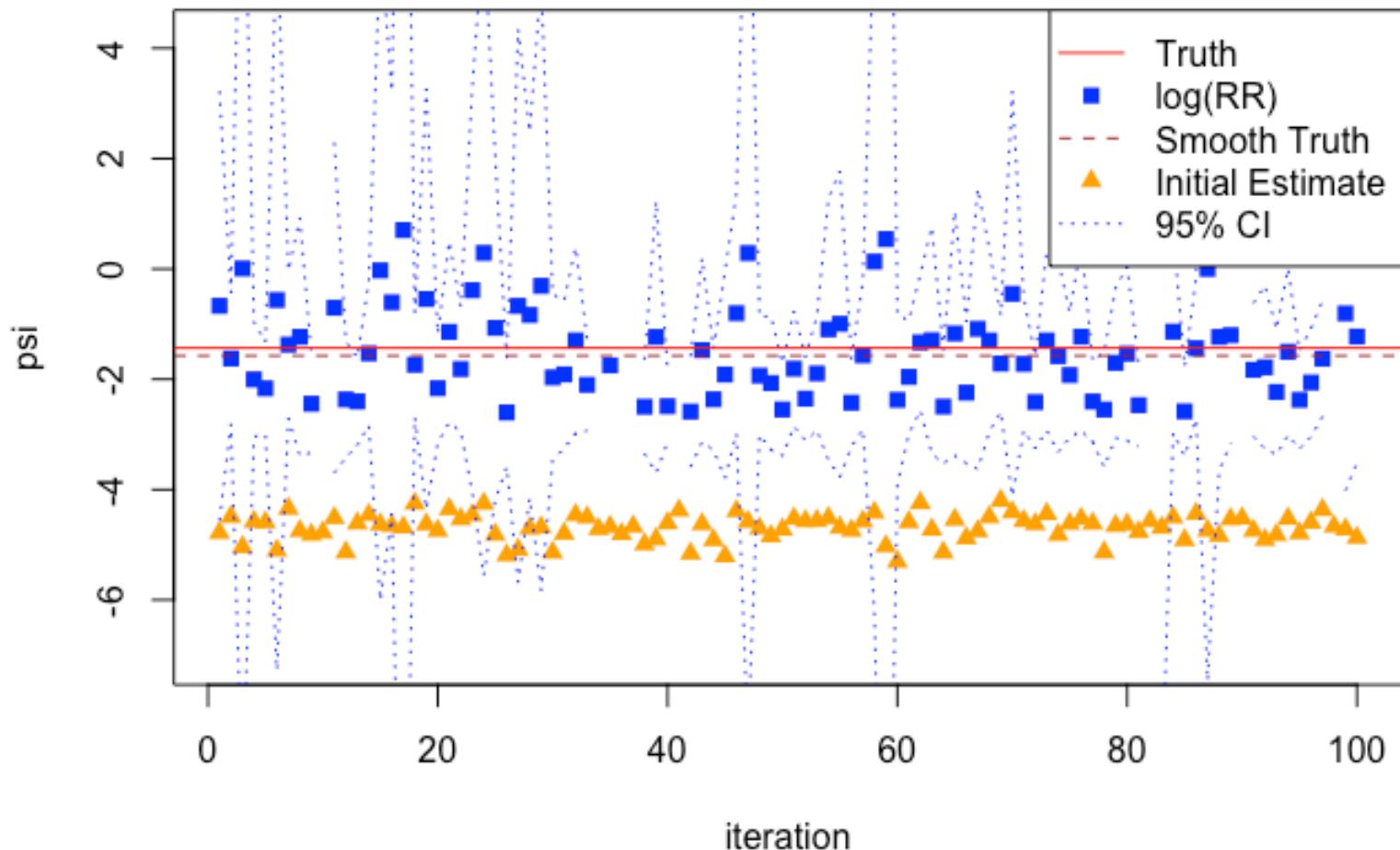
s1=0.5 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



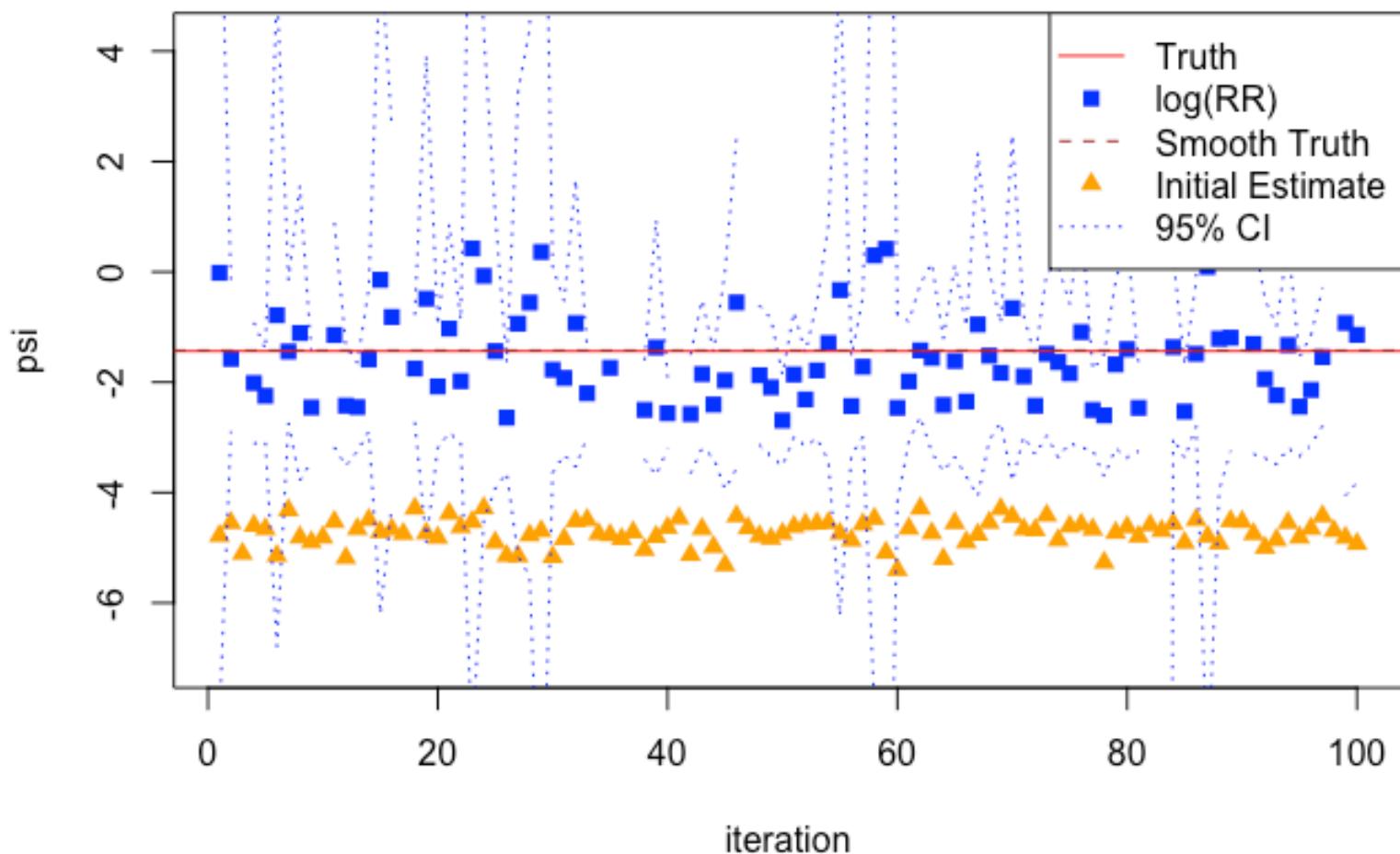
s1=0.6 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



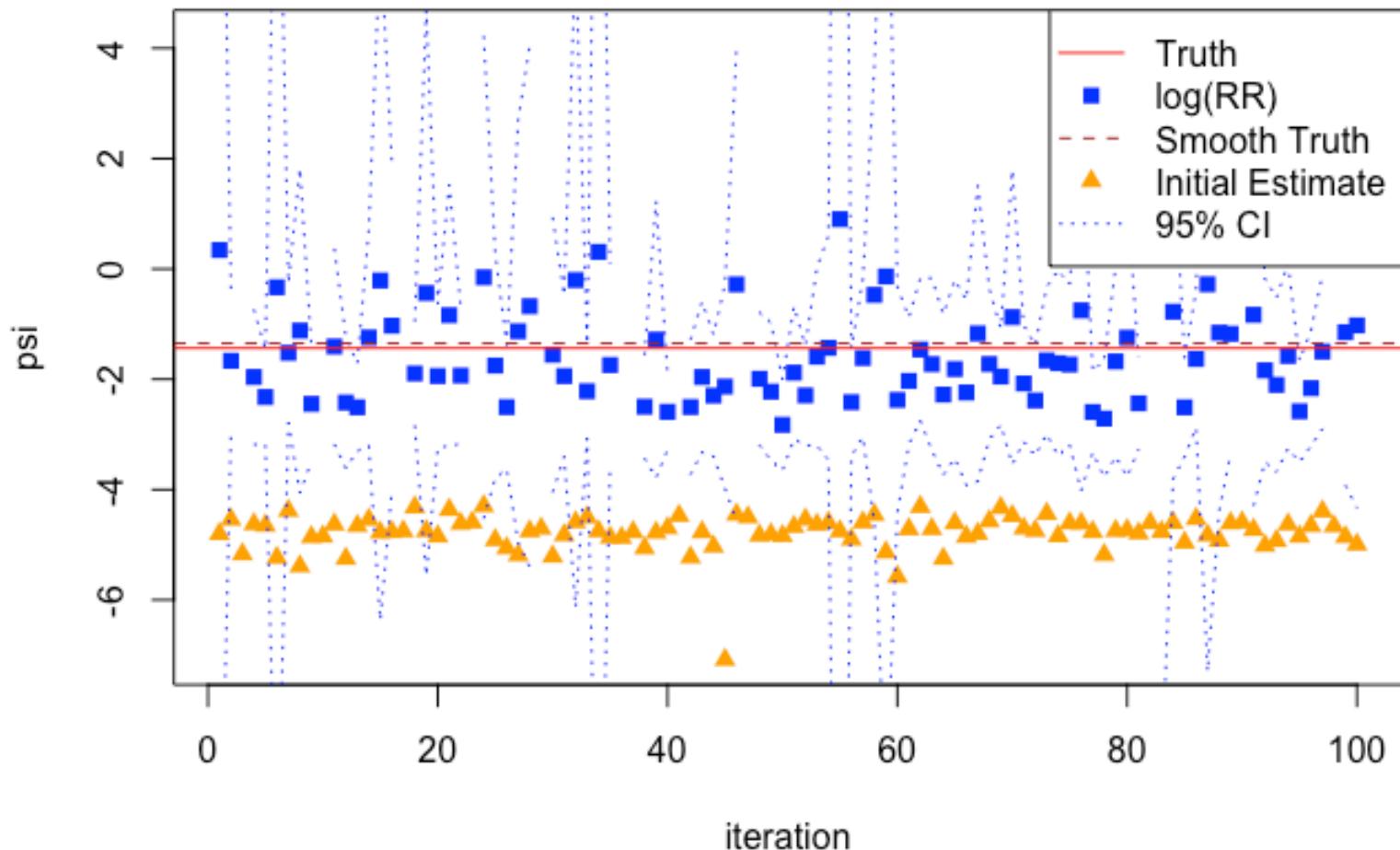
s1=0.7 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



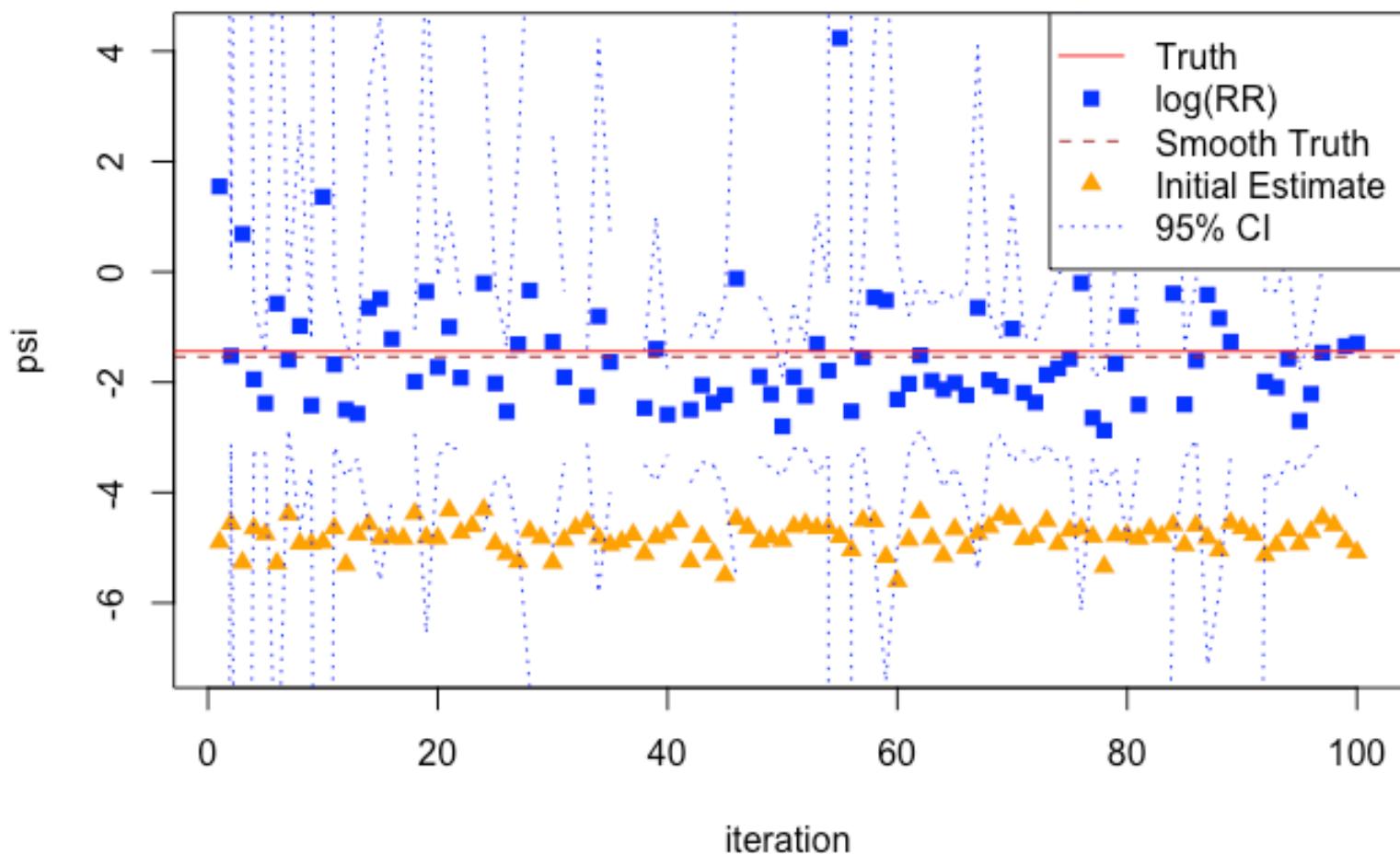
s1=0.8 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



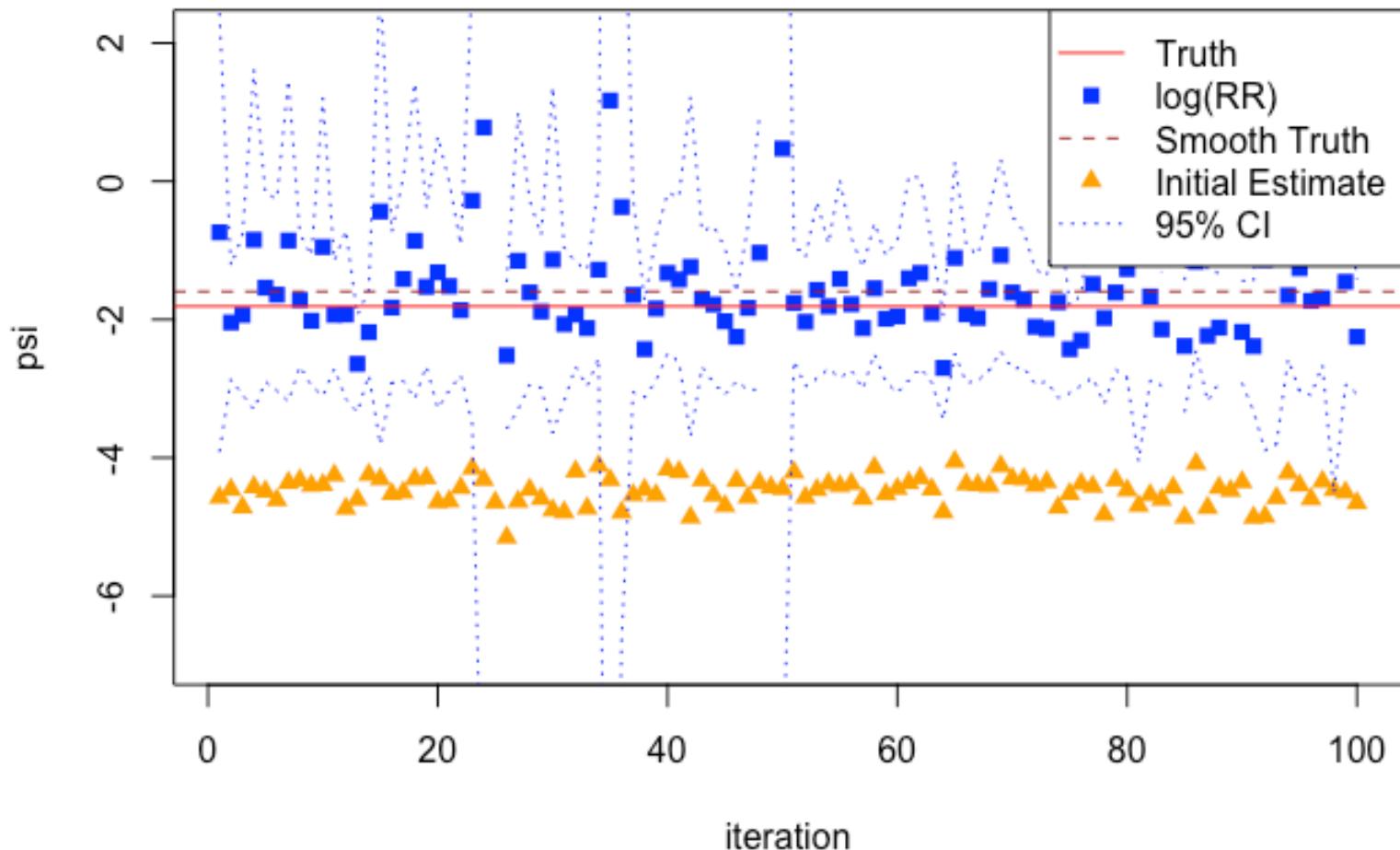
s1=0.9 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



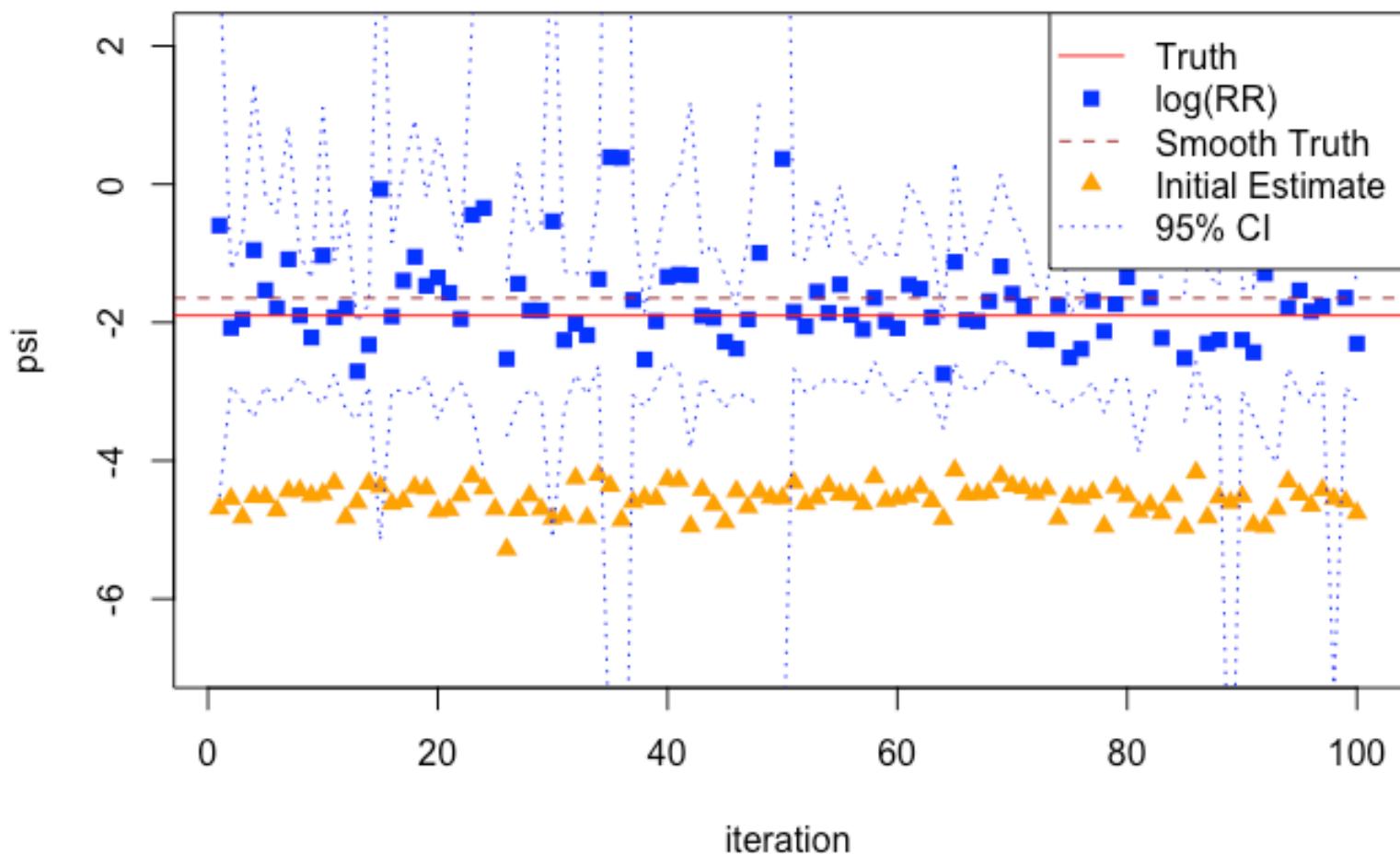
s1=1 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



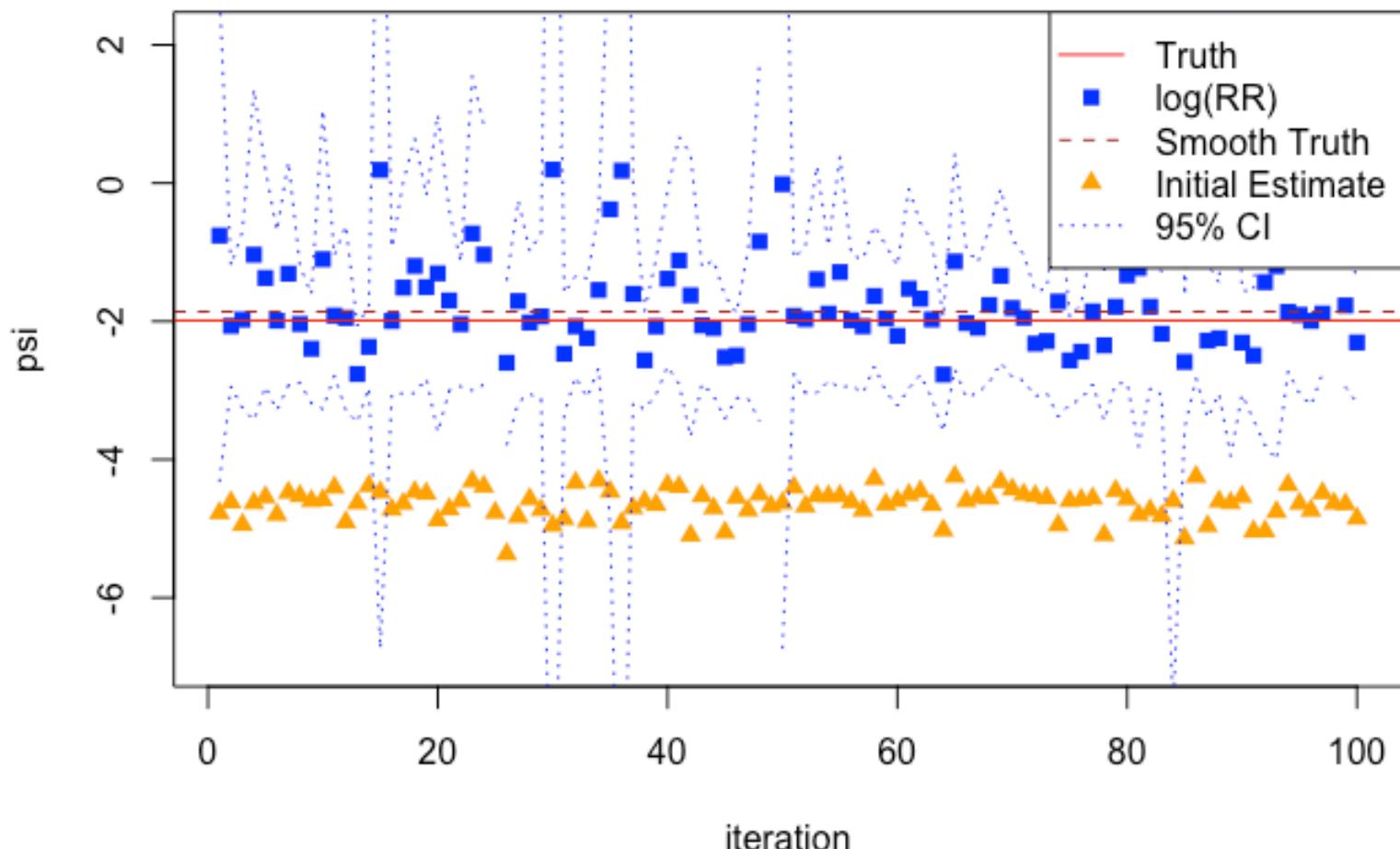
$s1=0$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



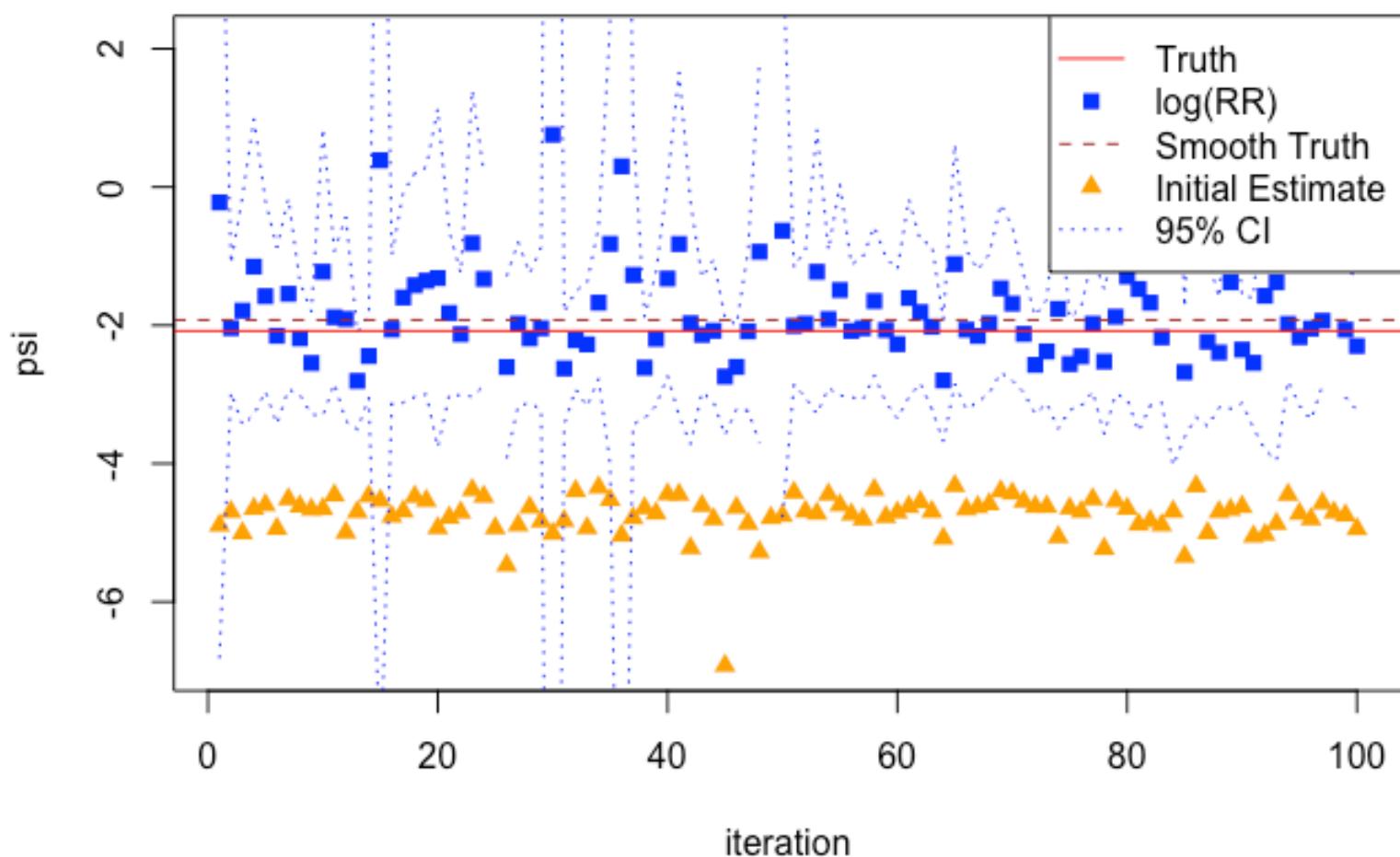
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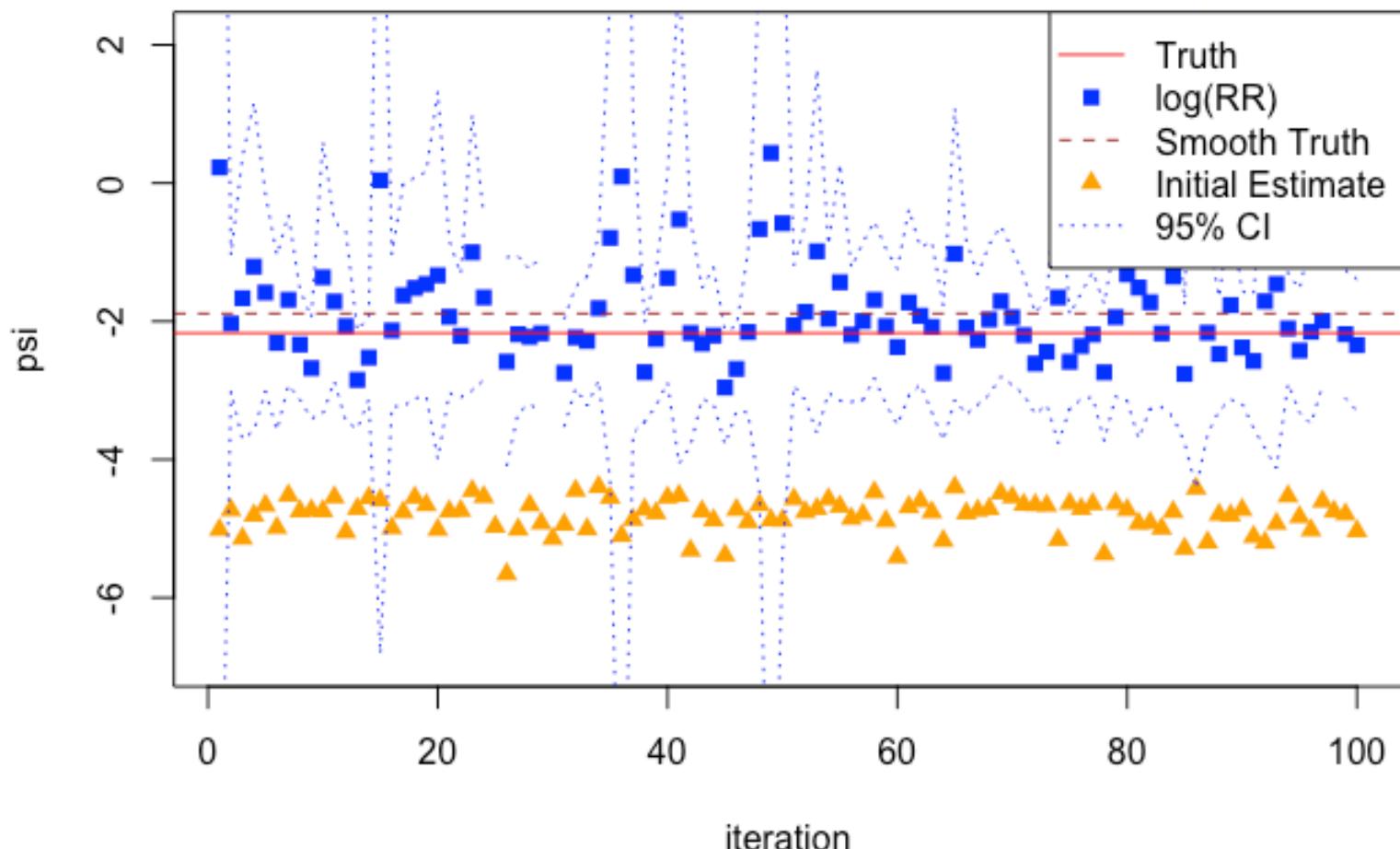
$s_1=0.2$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



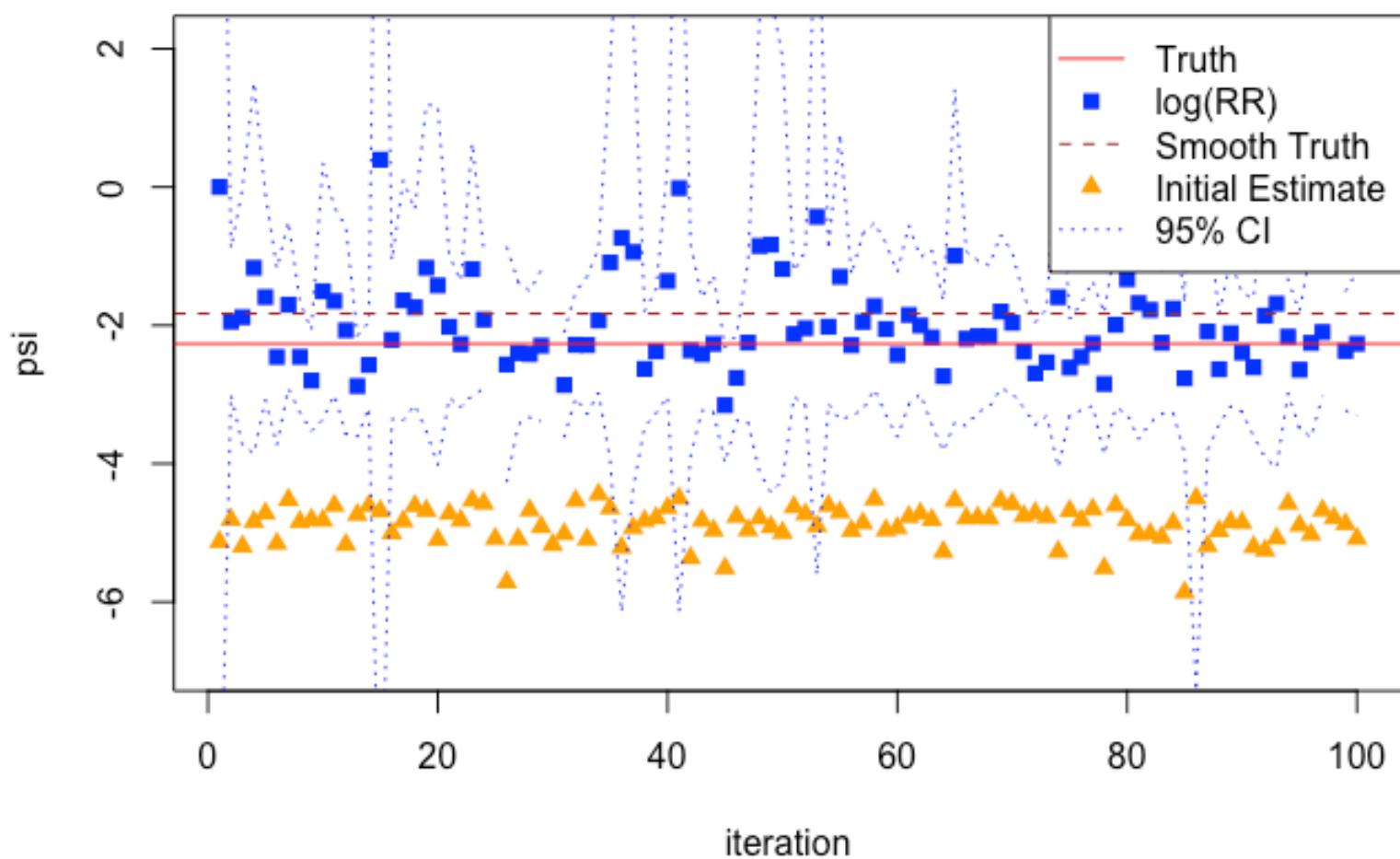
$s_1=0.3$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



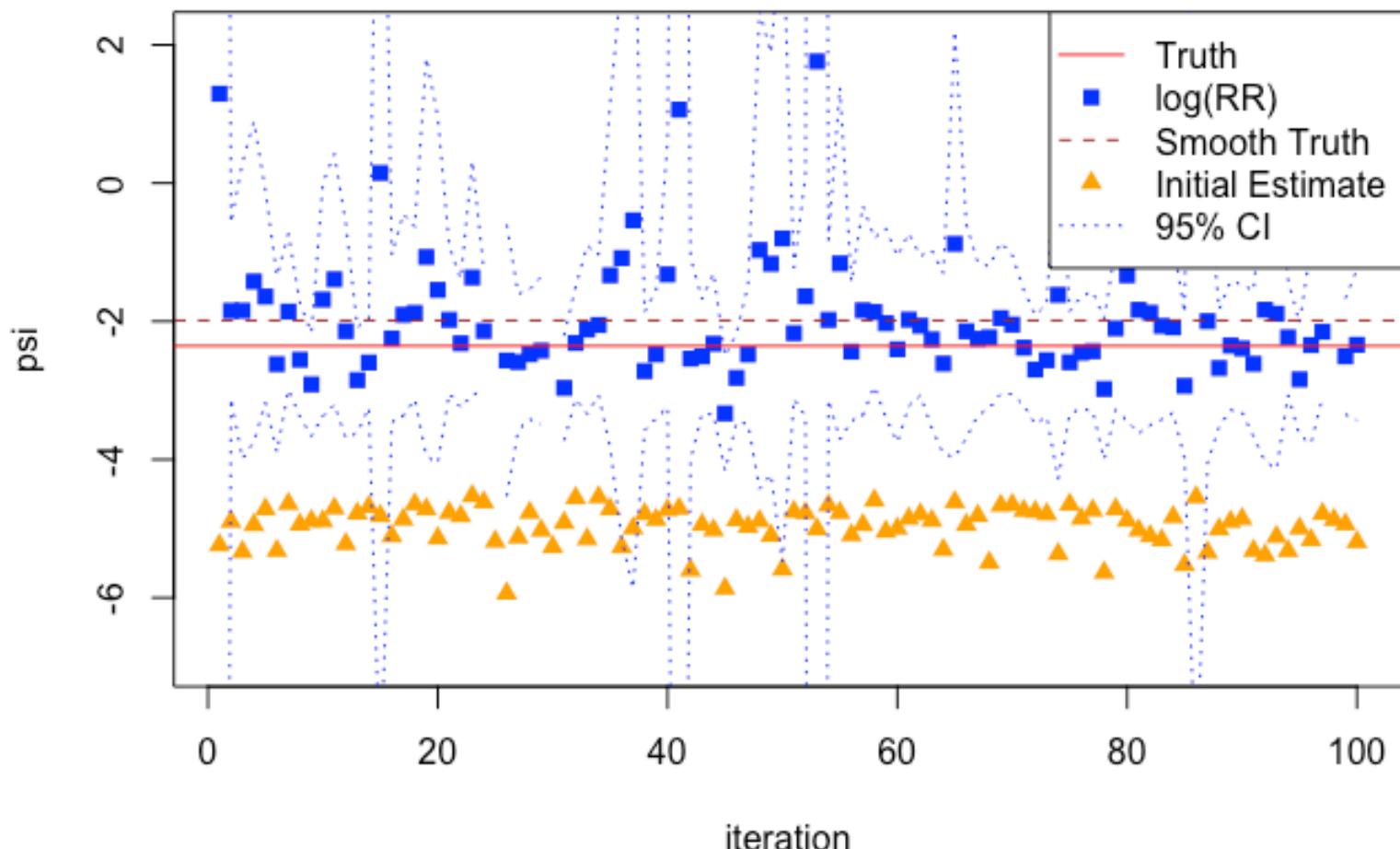
$s_1=0.4$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



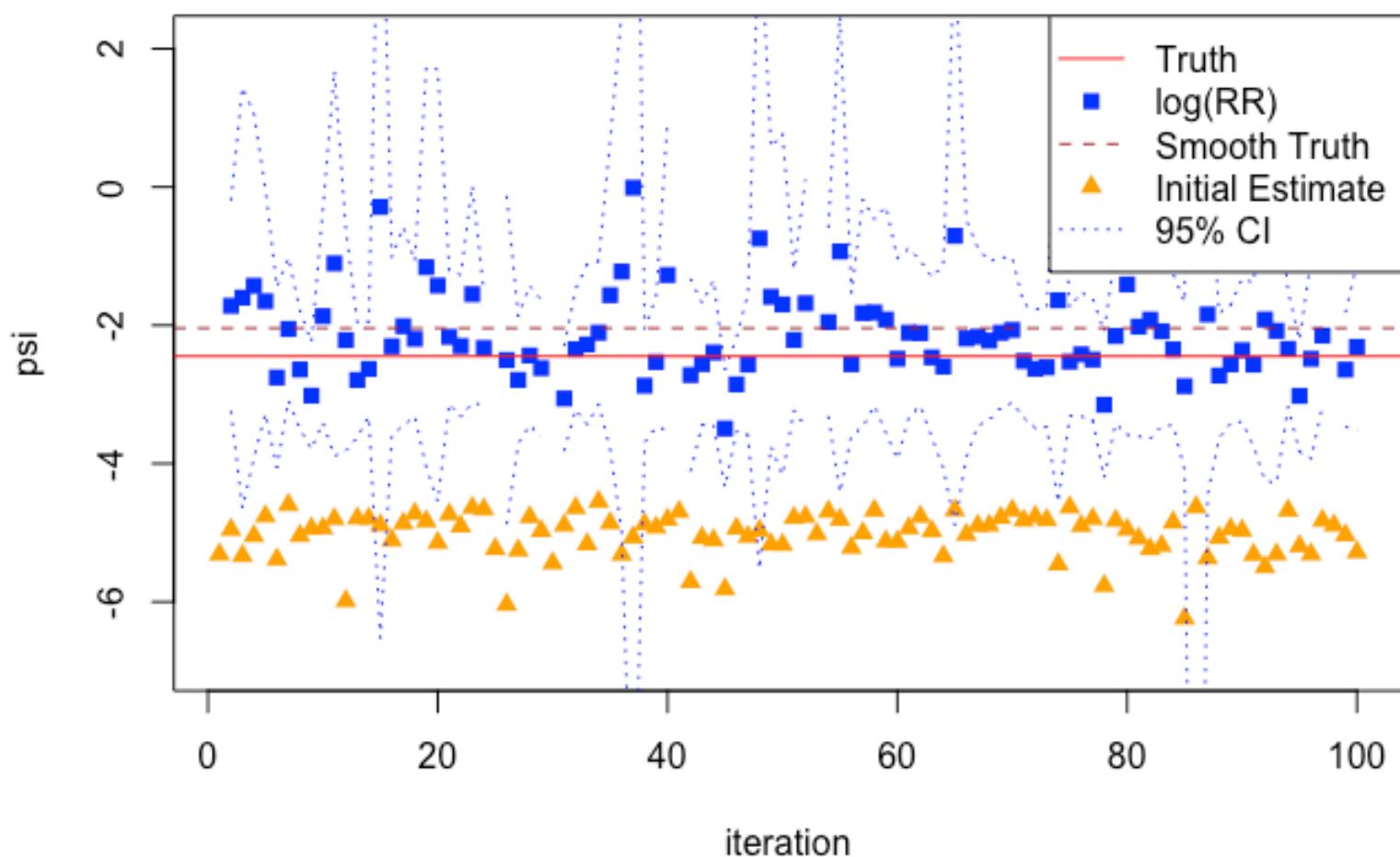
$s_1=0.5$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



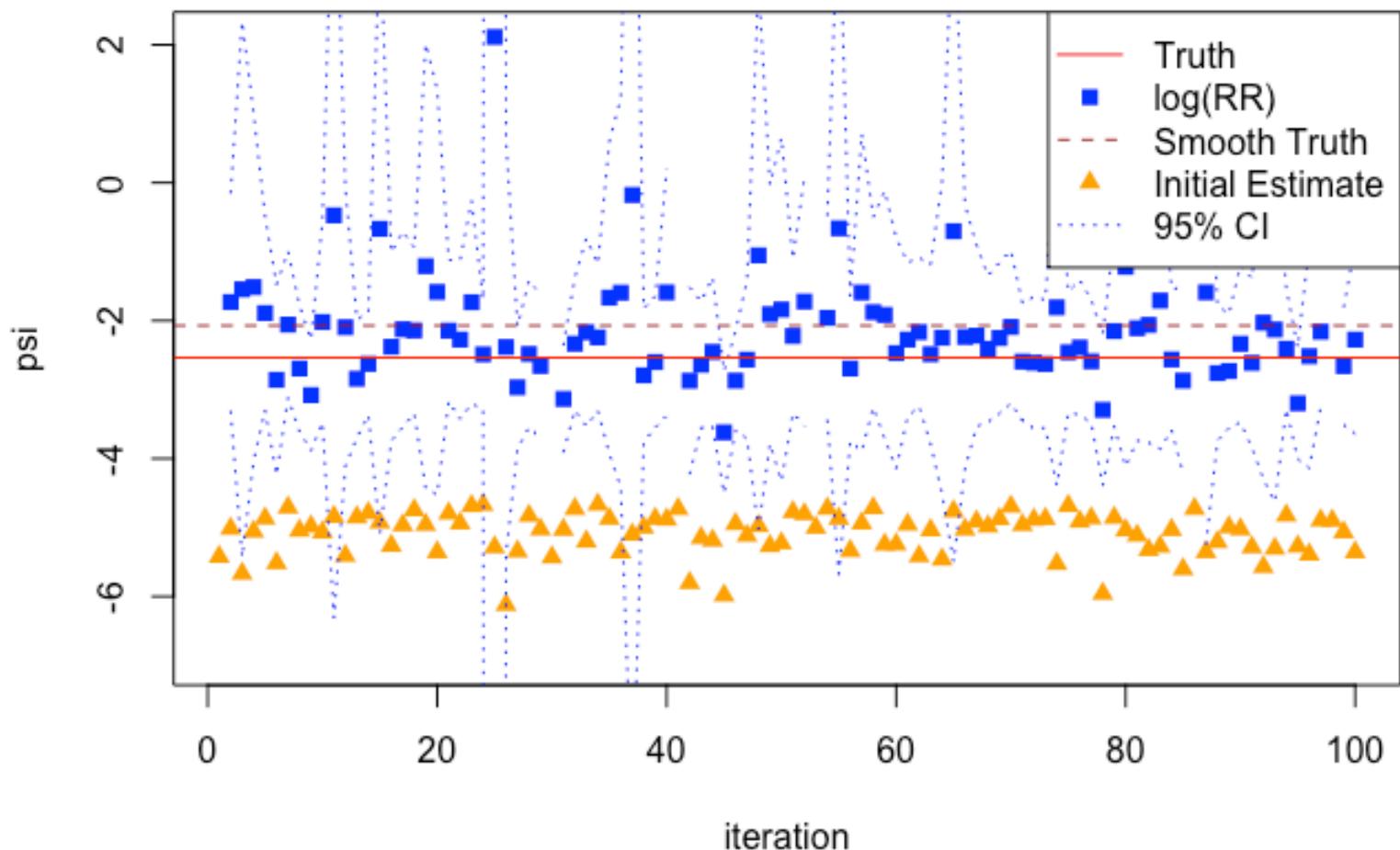
$s_1=0.6$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



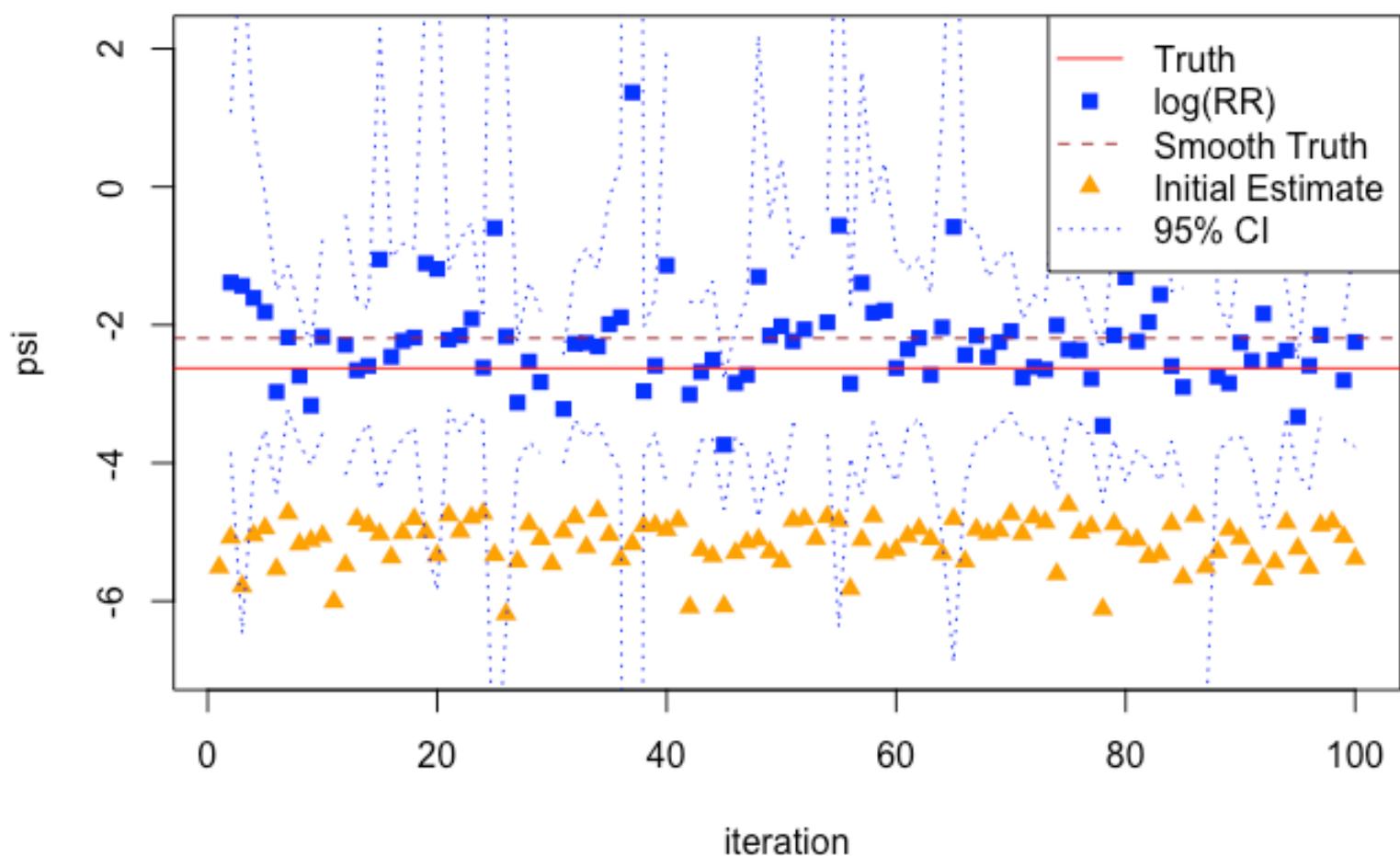
$s_1=0.7$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



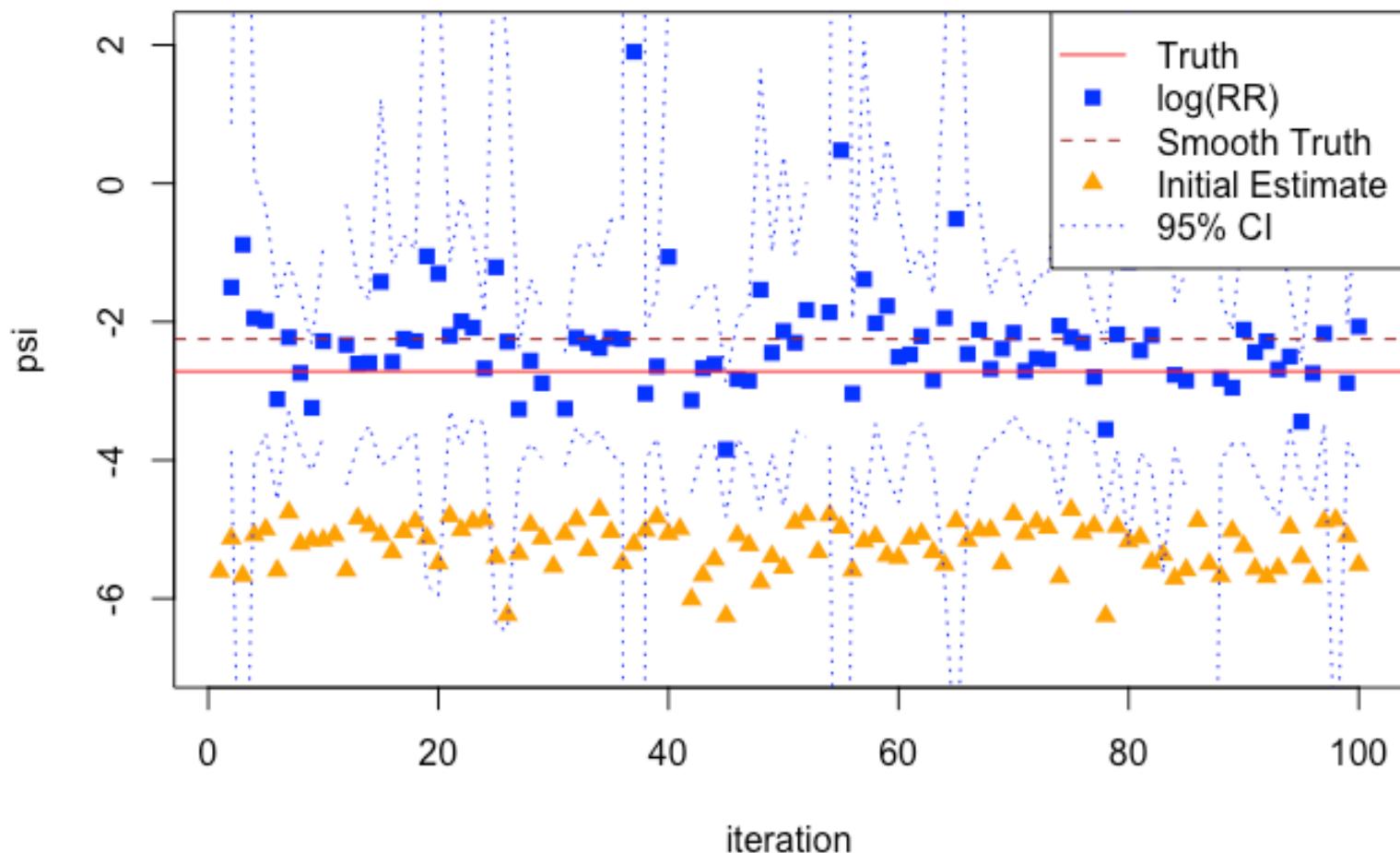
$s_1=0.8$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.25, sample rate=1



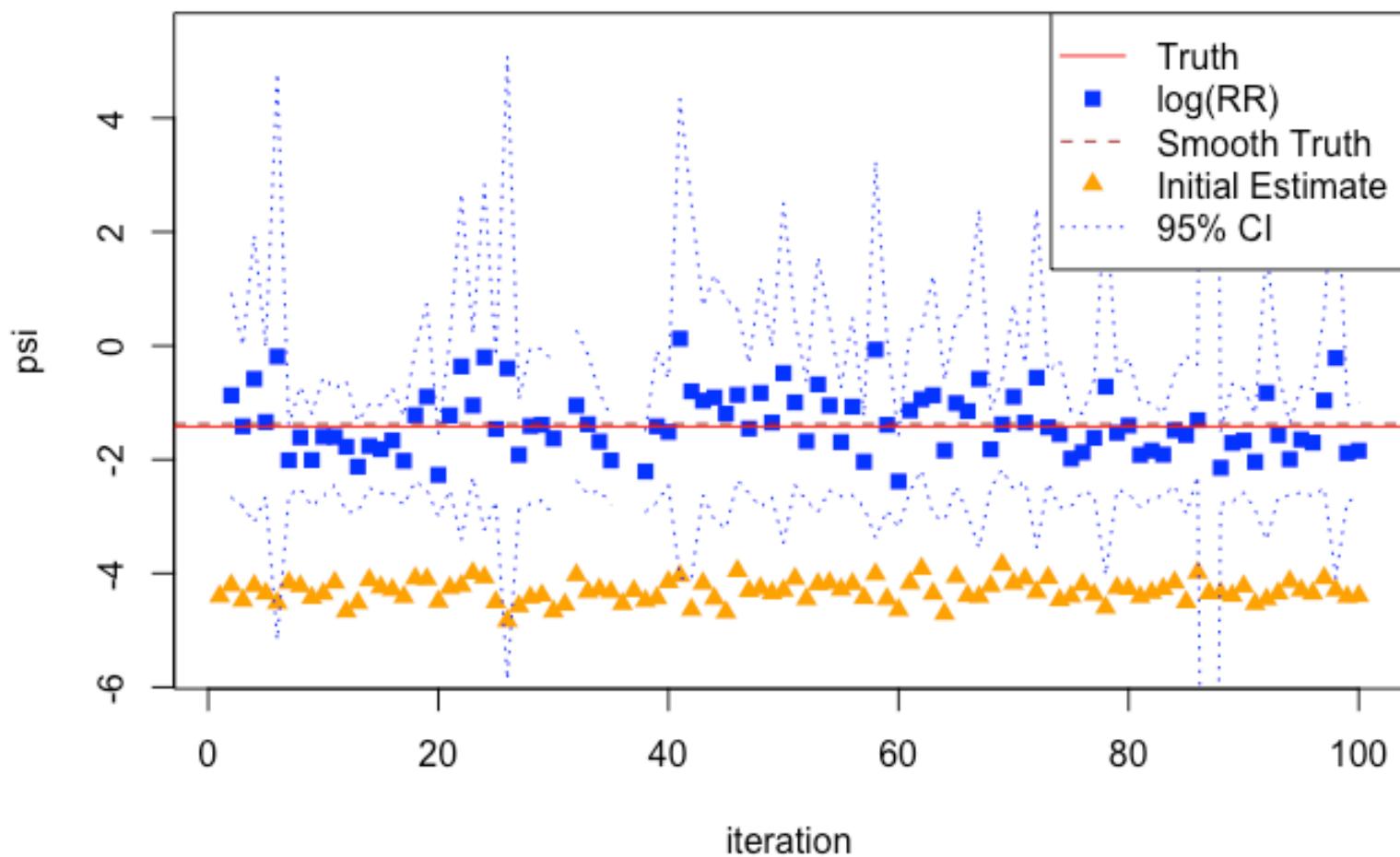
$s_1=0.9$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.25, sample rate=1



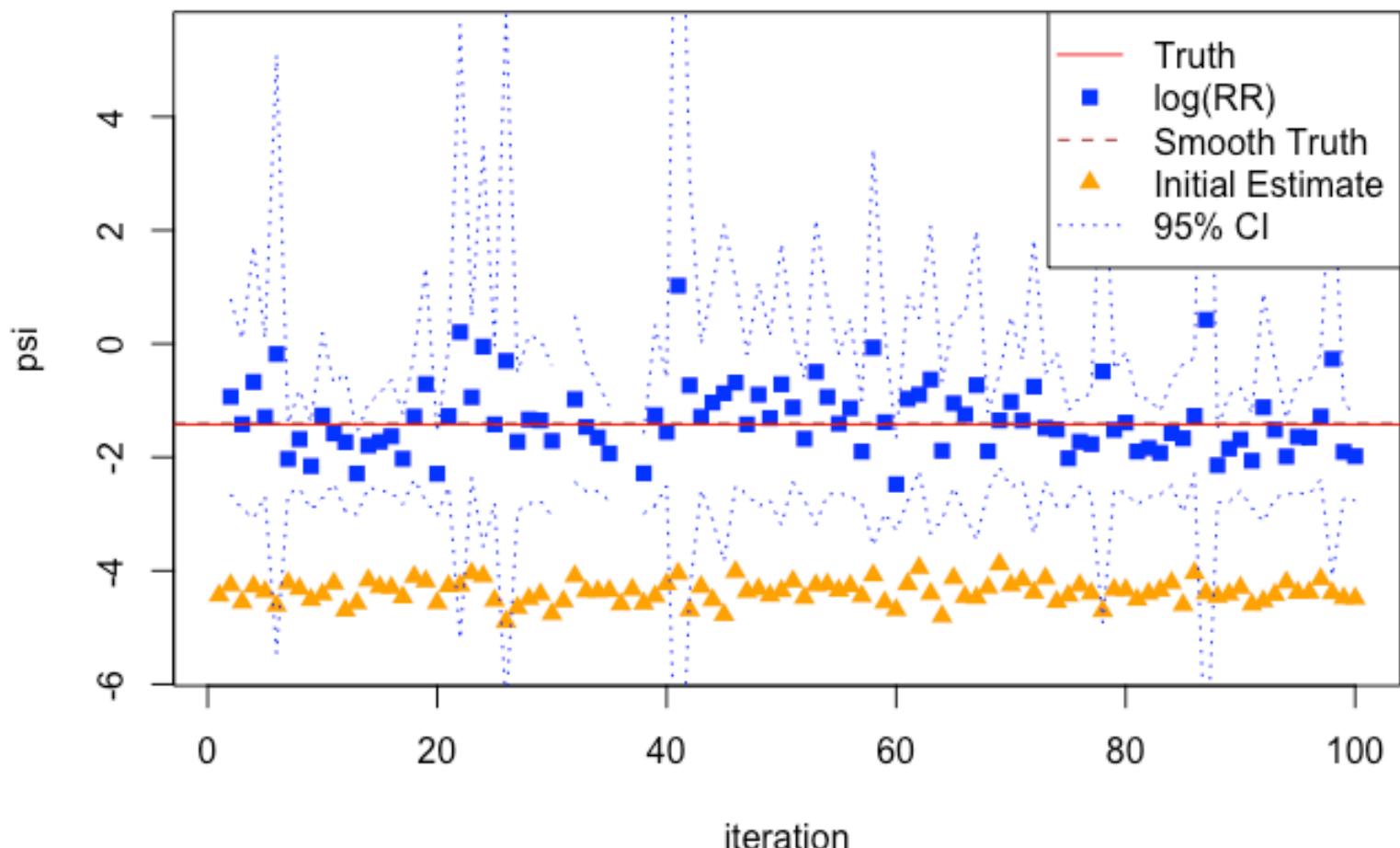
s1=1 Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.25, sample rate=1



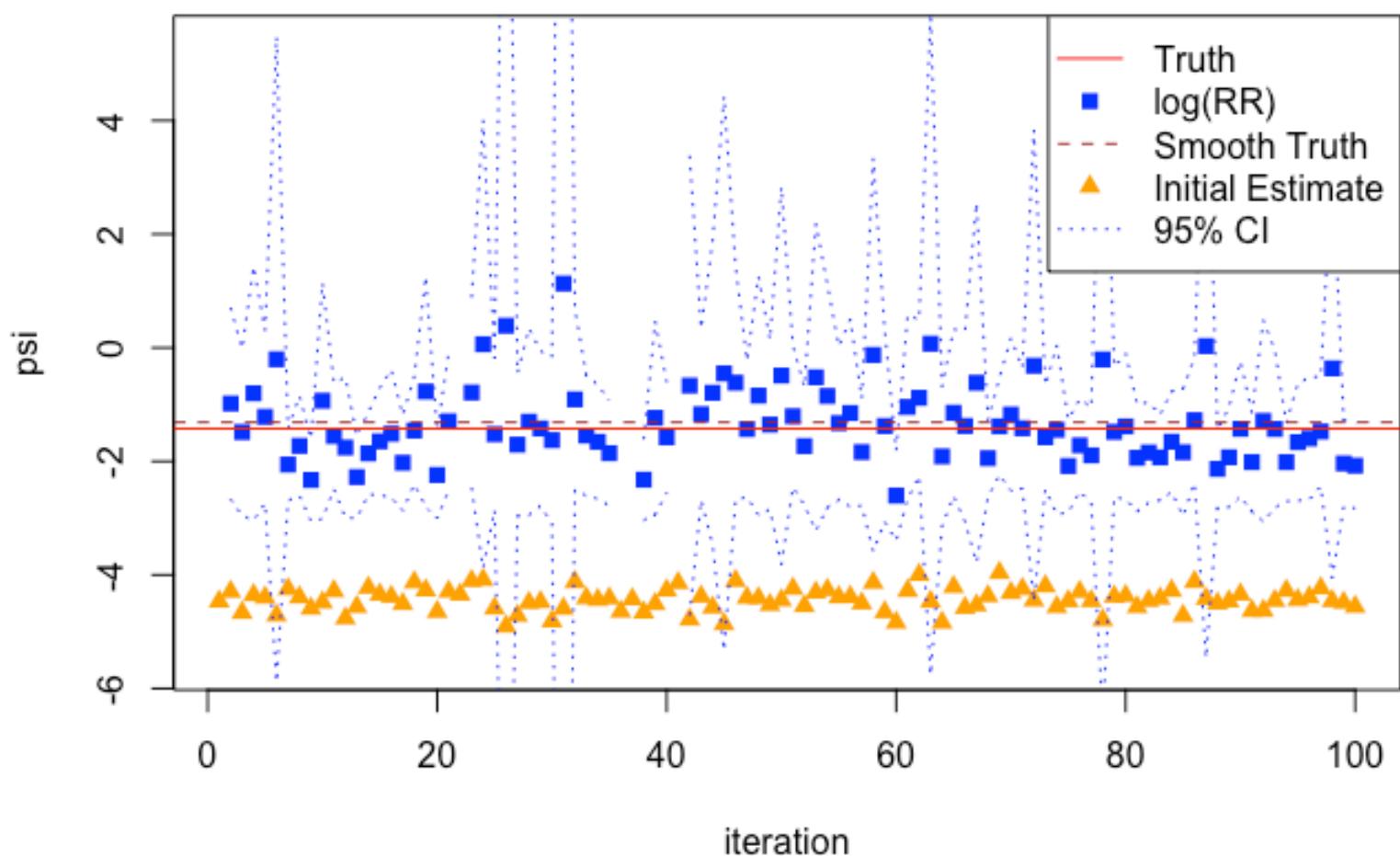
s1=0 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.5, sample rate=0.25



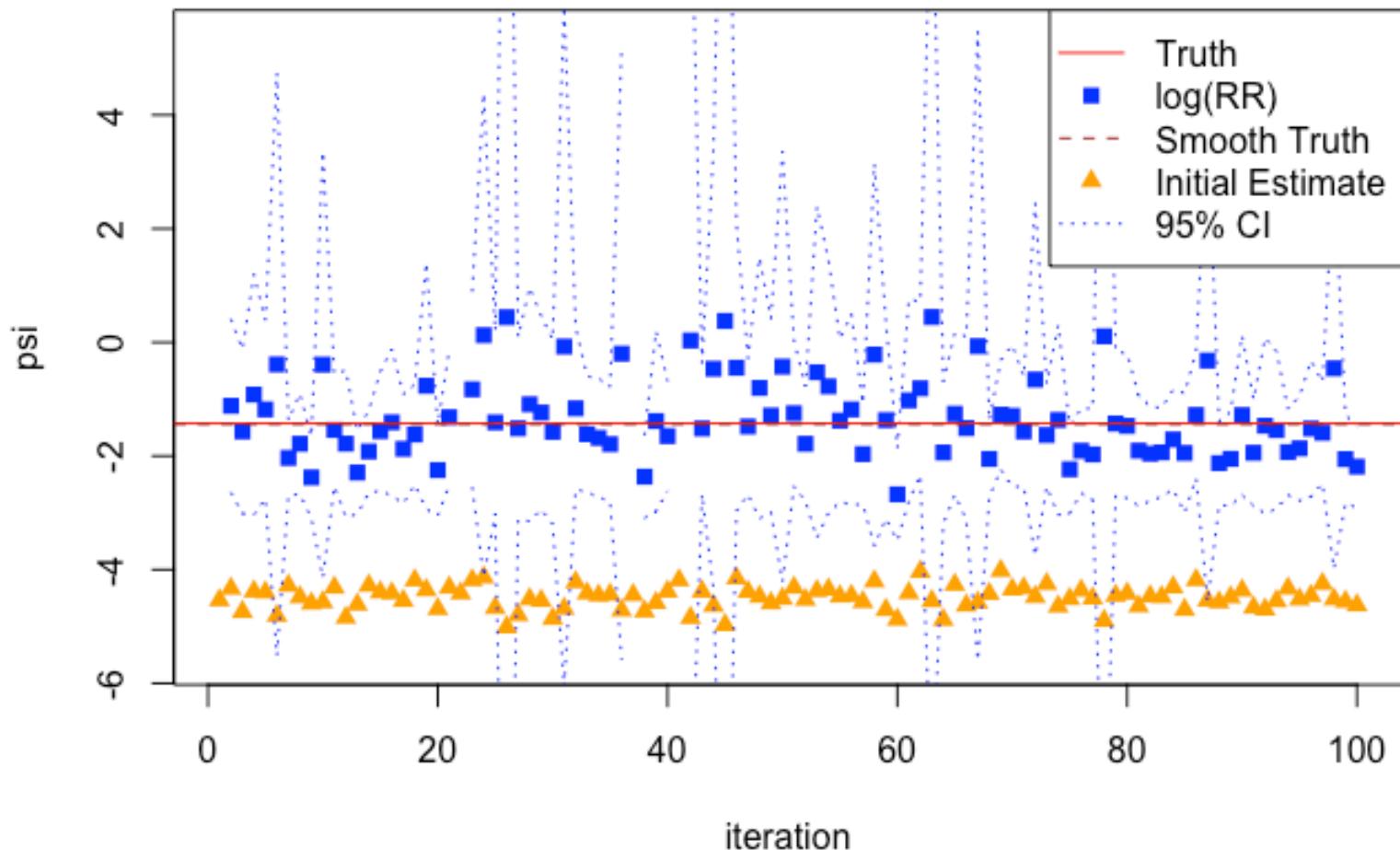
s1=0.1 Null case for cor(S1,W)=0.75, crossover rate=0.5, sample rate=0.25



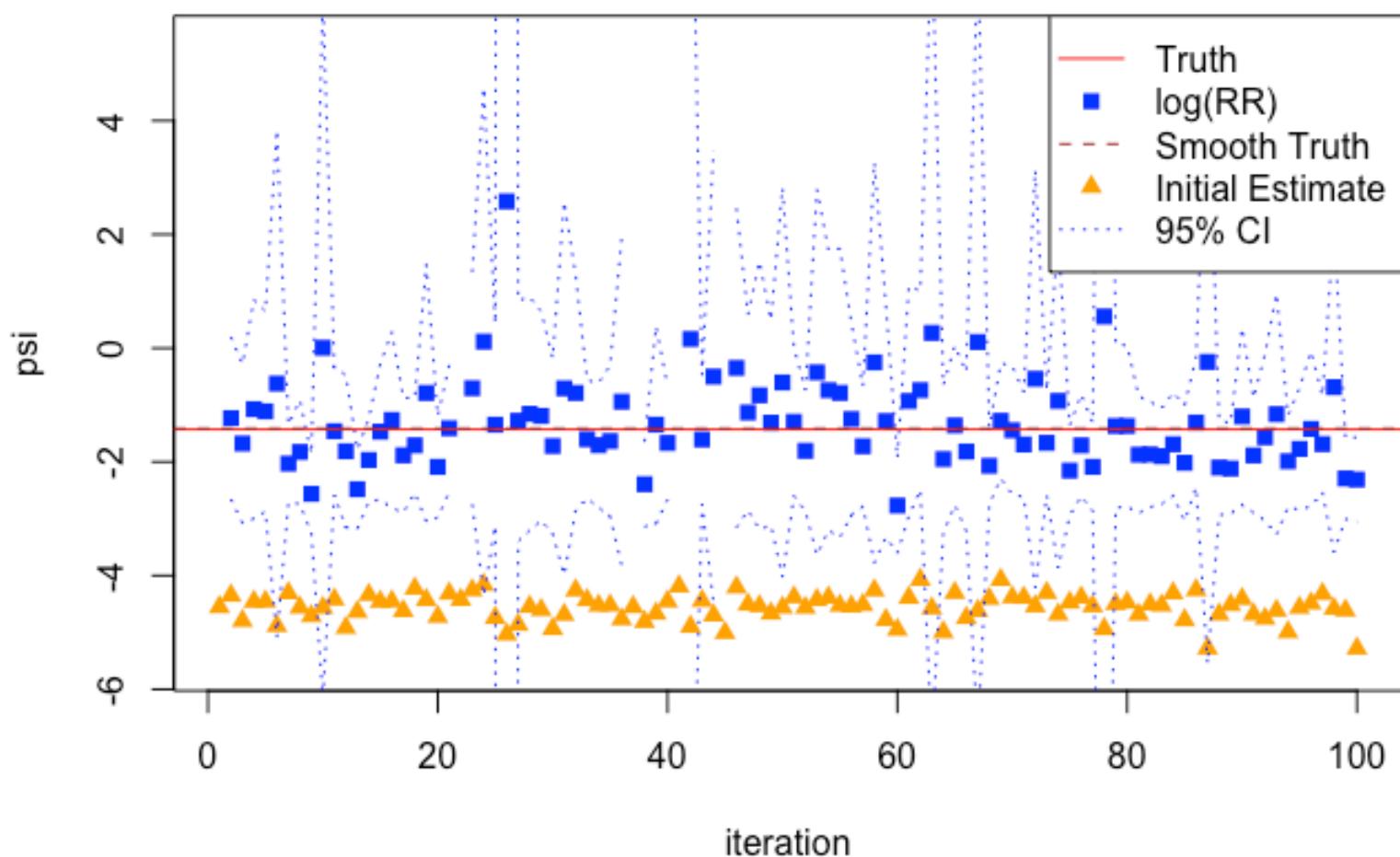
s1=0.2 Null case for cor(S1,W)=0.75, crossover rate=0.5, sample rate=0.25



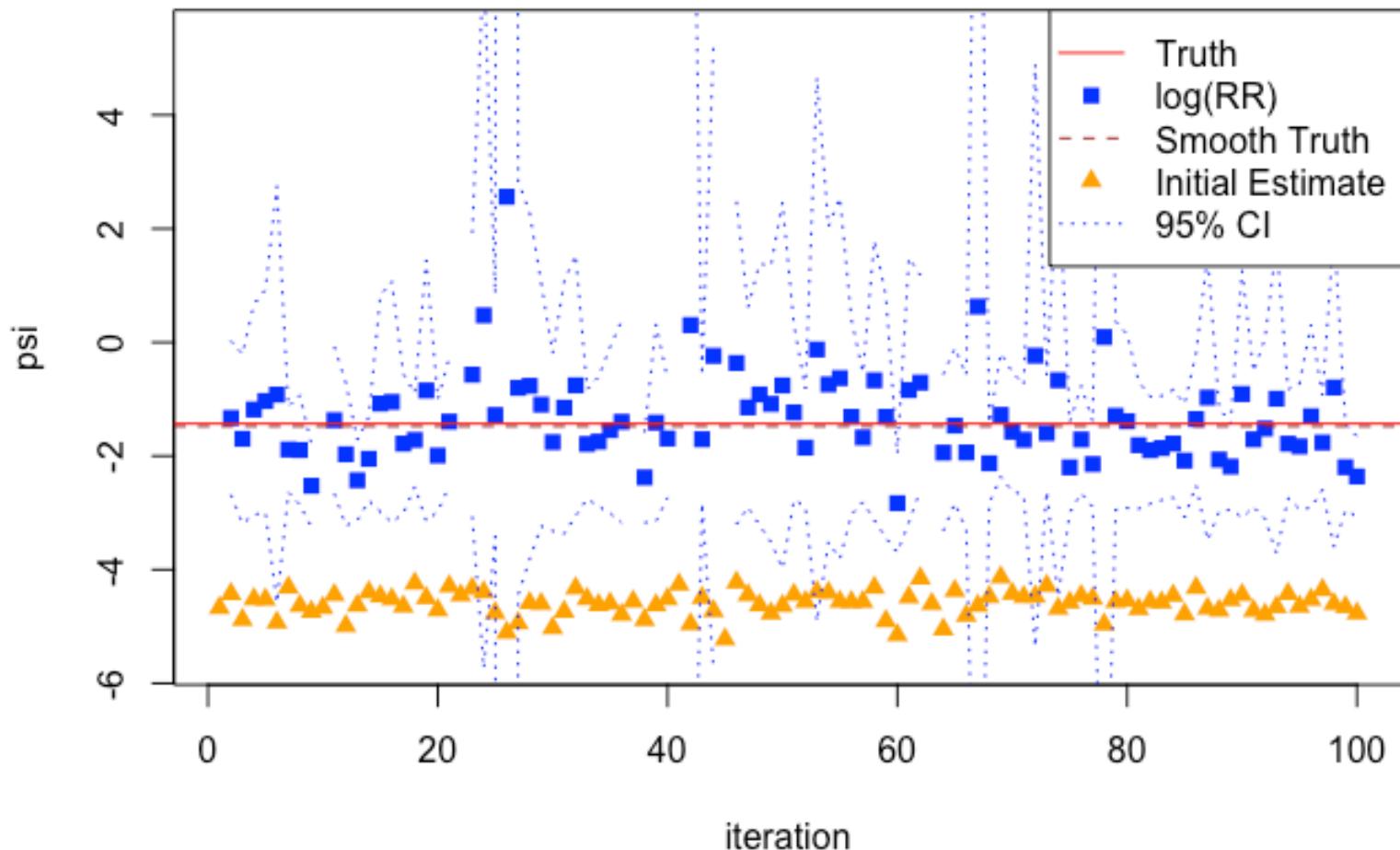
s1=0.3 Null case for cor(S1,W)=0.75, crossover rate=0.5, sample rate=0.25



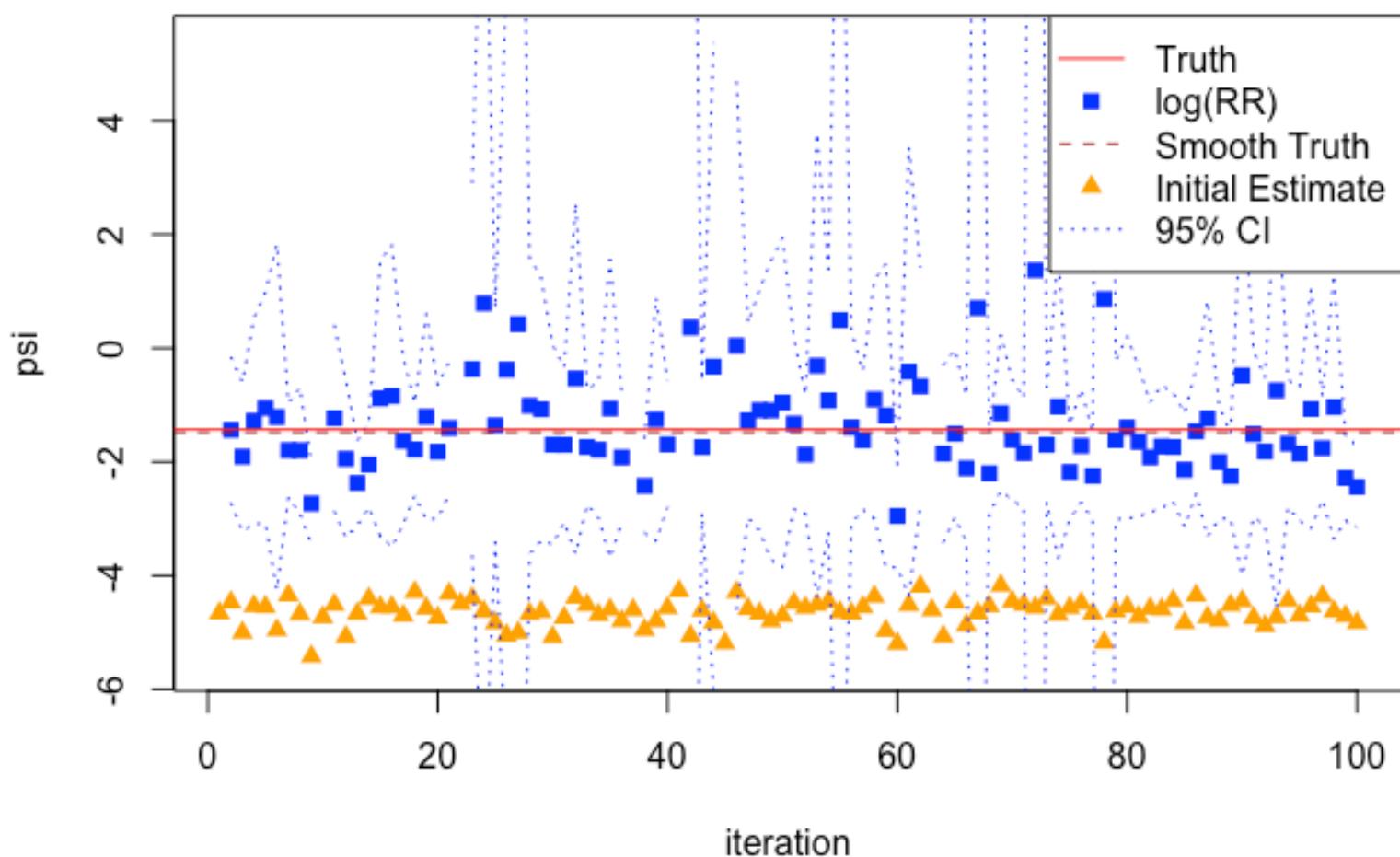
s1=0.4 Null case for cor(S1,W)=0.75, crossover rate=0.5, sample rate=0.25



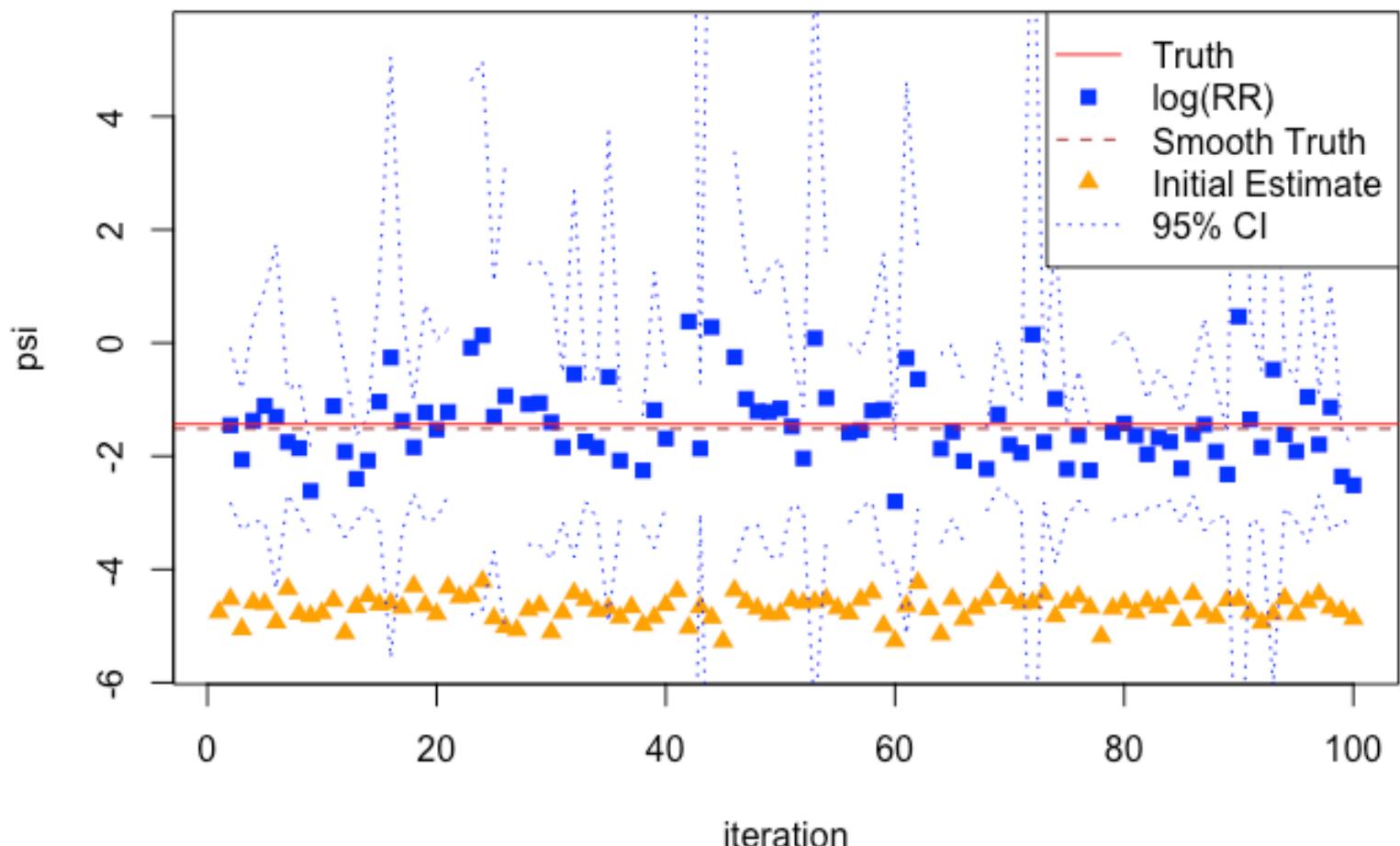
s1=0.5 Null case for cor(S1,W)=0.75, crossover rate=0.5, sample rate=0.25



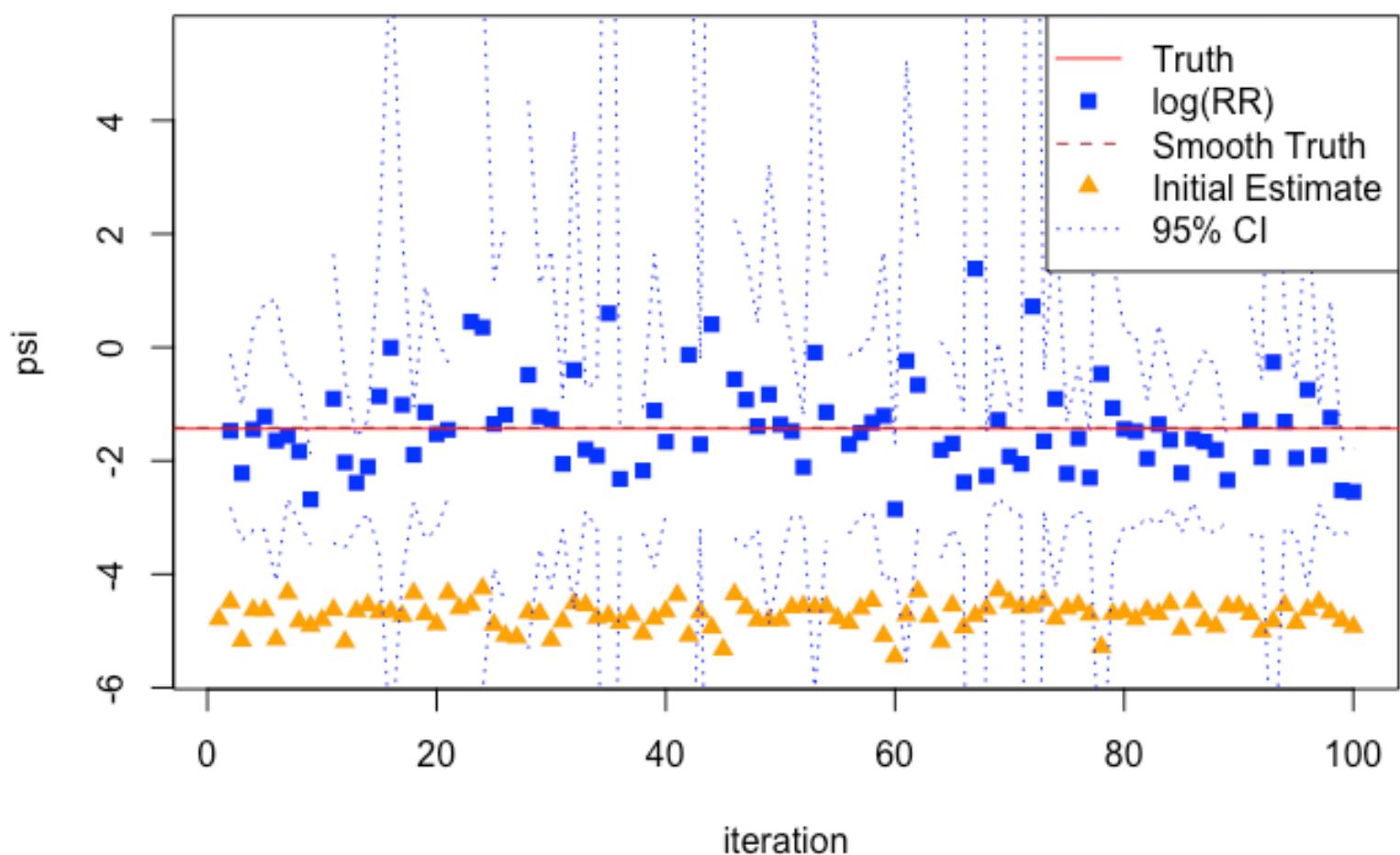
s1=0.6 Null case for cor(S1,W)=0.75, crossover rate=0.5, sample rate=0.25



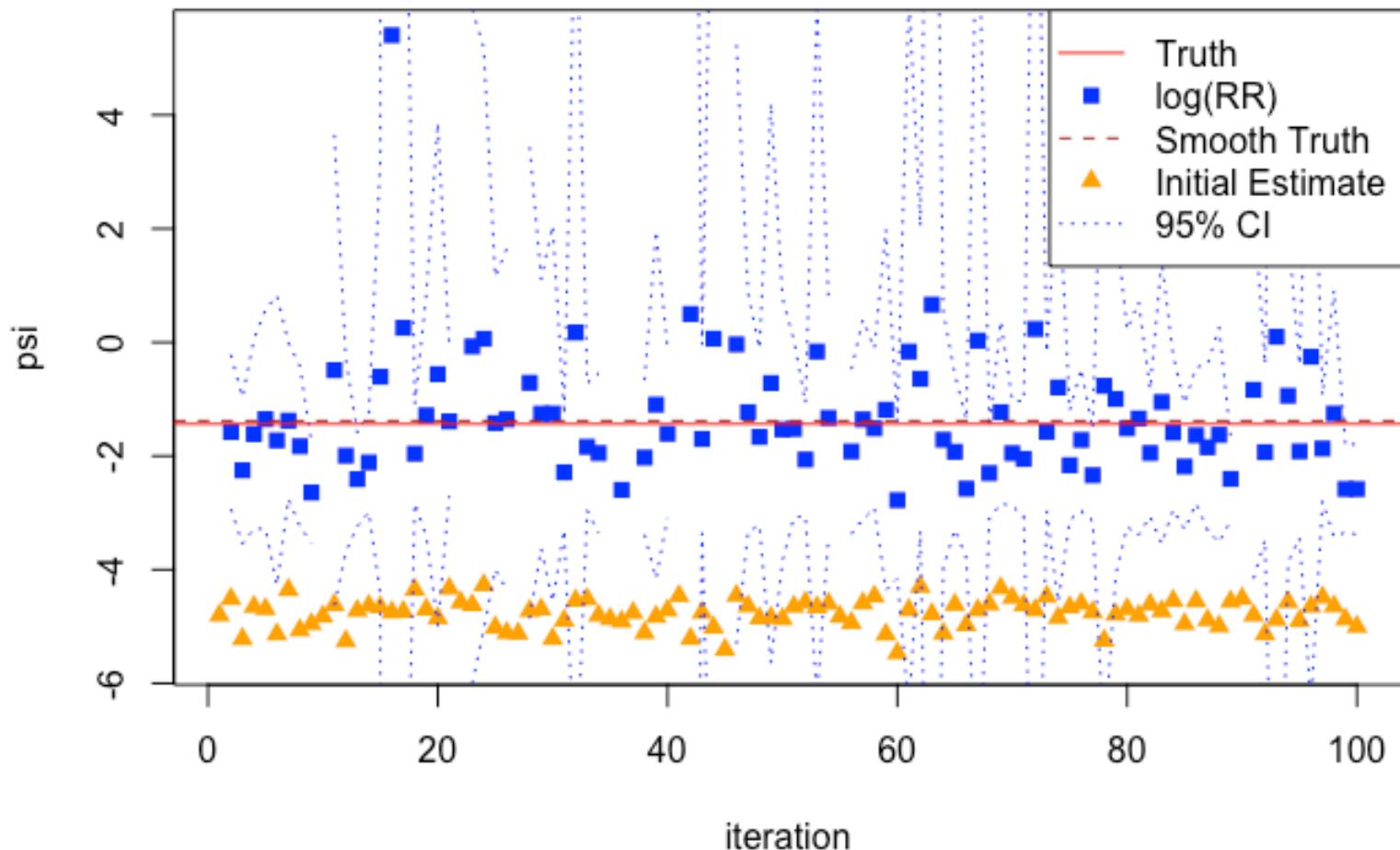
s1=0.7 Null case for cor(S1,W)=0.75, crossover rate=0.5, sample rate=0.25



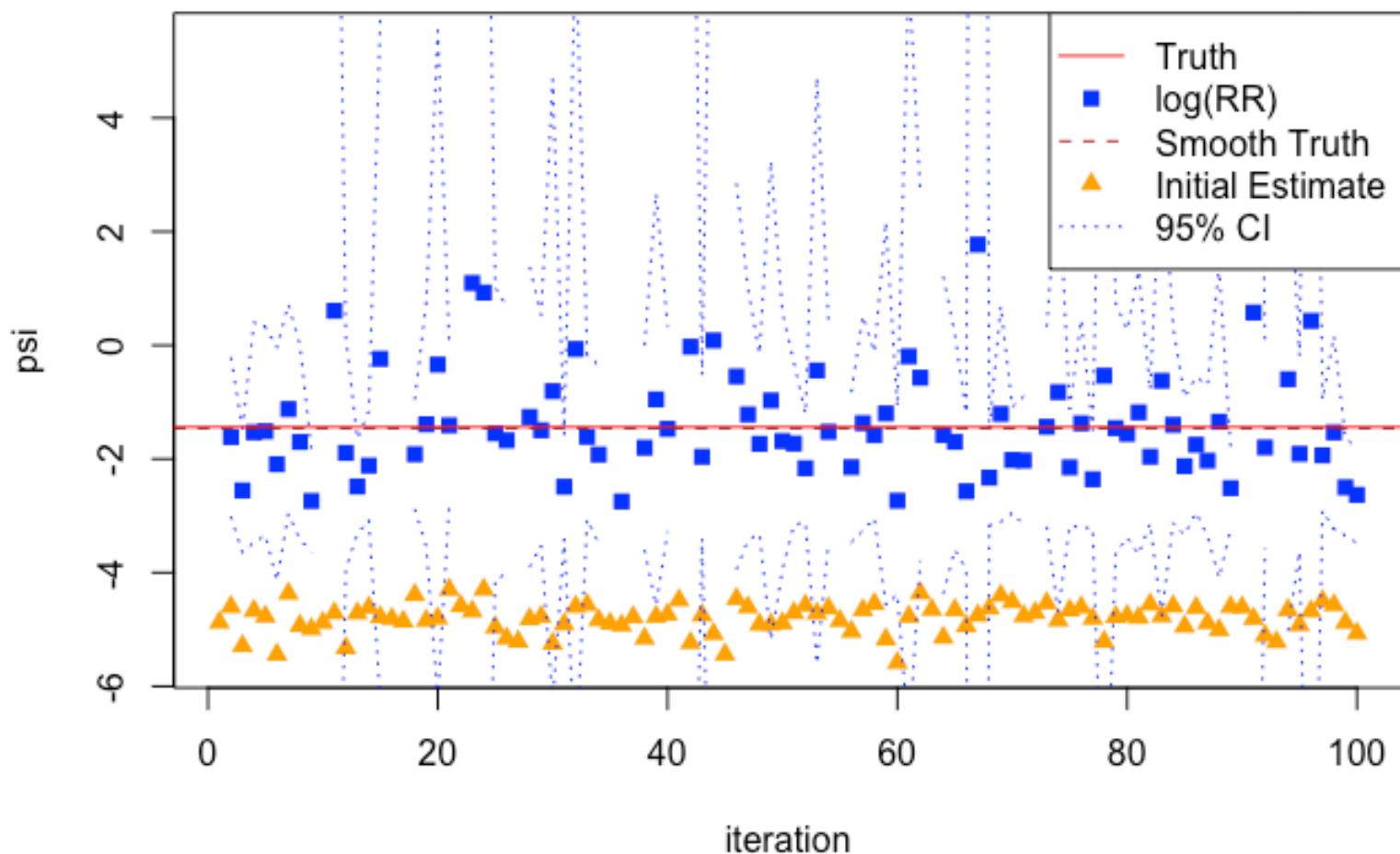
s1=0.8 Null case for cor(S1,W)=0.75, crossover rate=0.5, sample rate=0.25



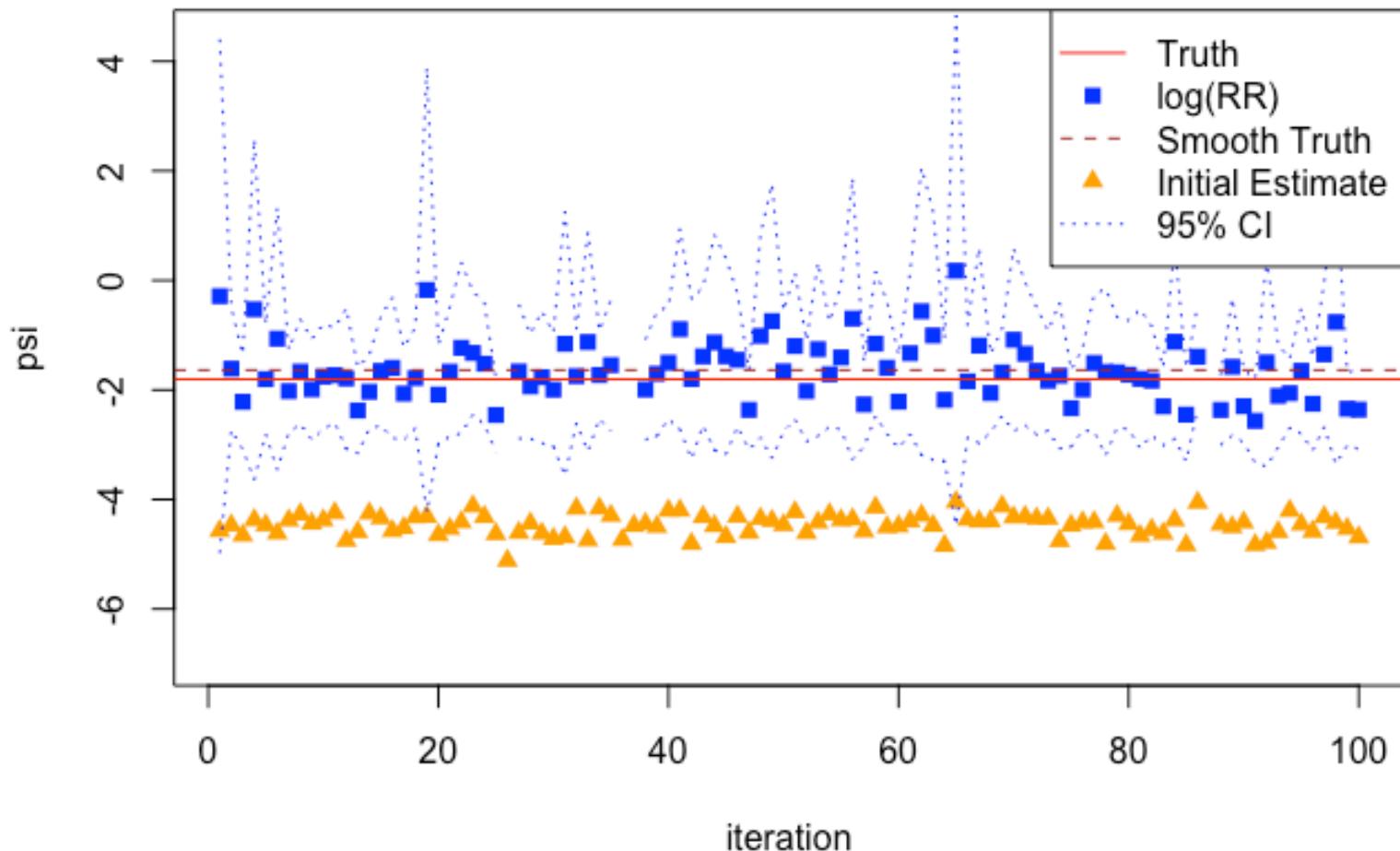
s1=0.9 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.5, sample rate=0.25



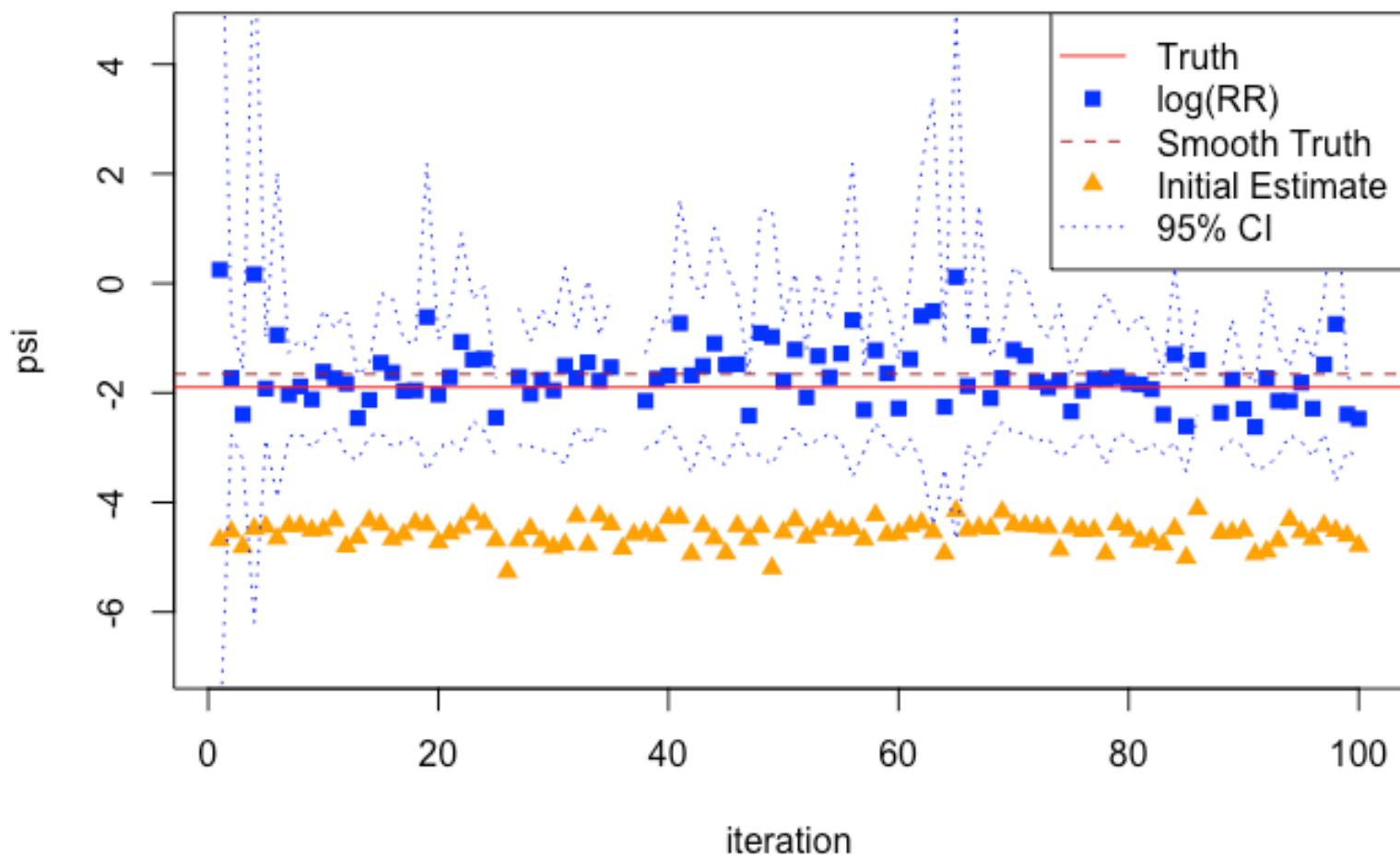
s1=1 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.5, sample rate=0.25



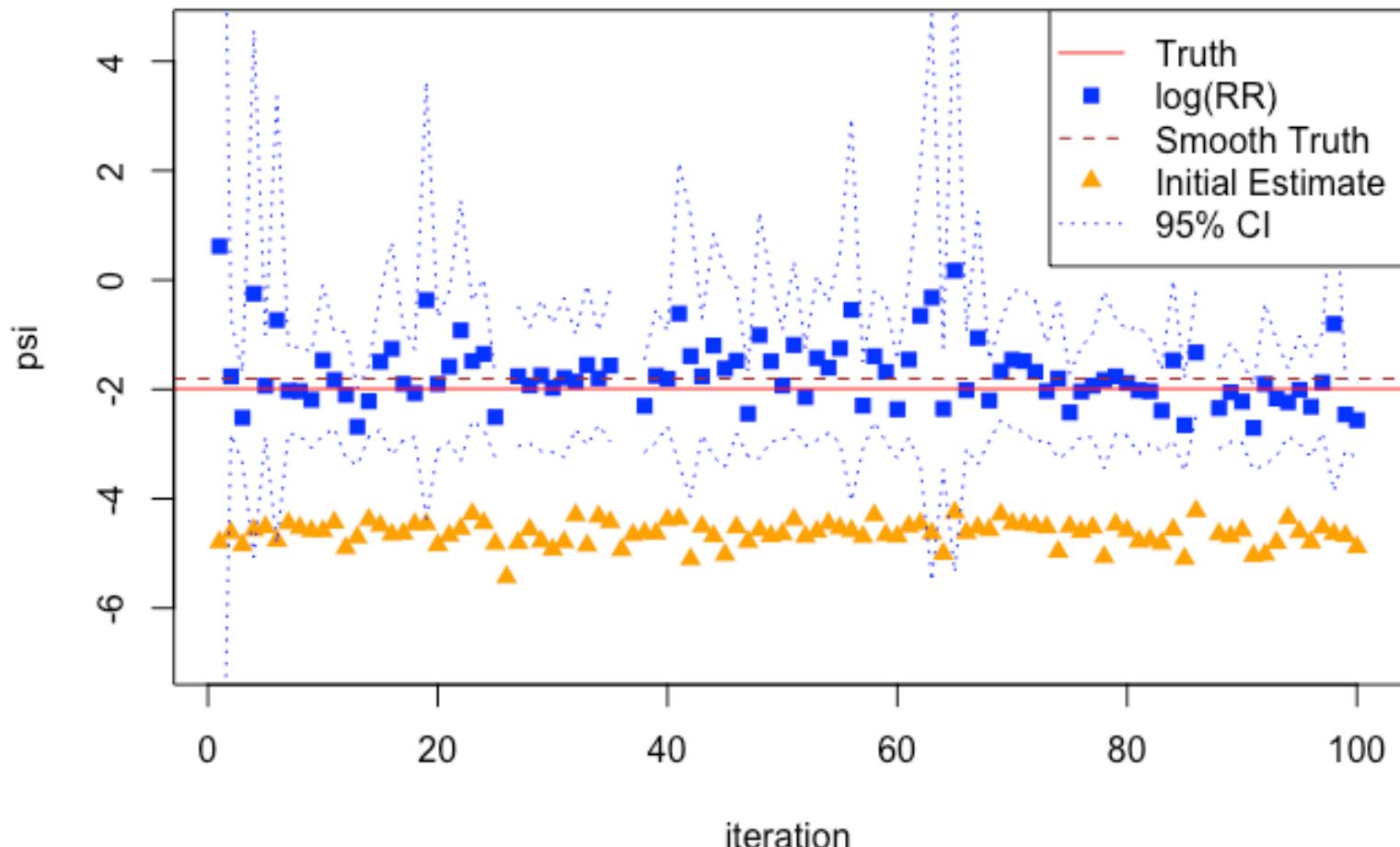
s1=0 Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.5, sample rate=0.25



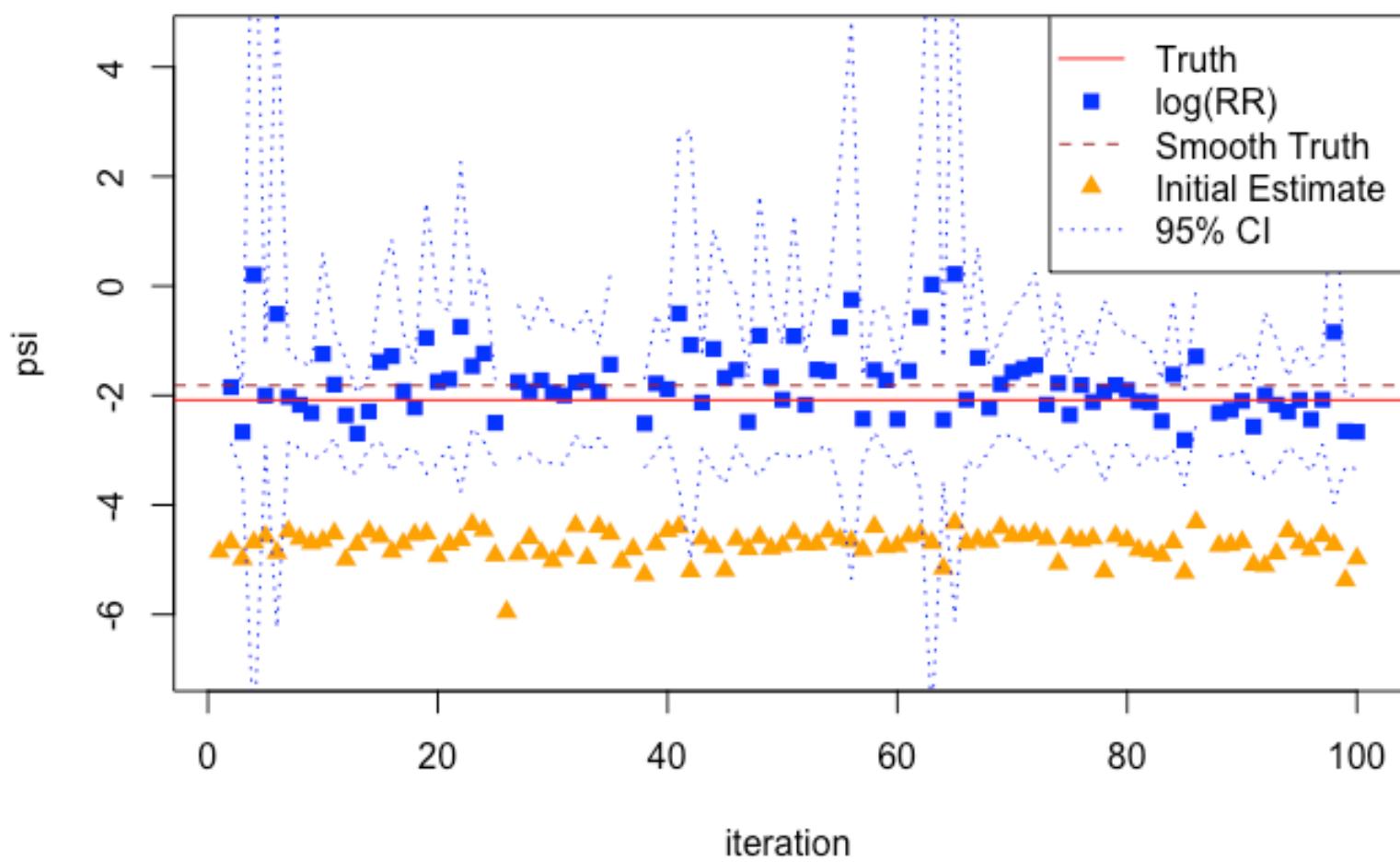
s1=0.1 Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=0.5, sample rate=0.25



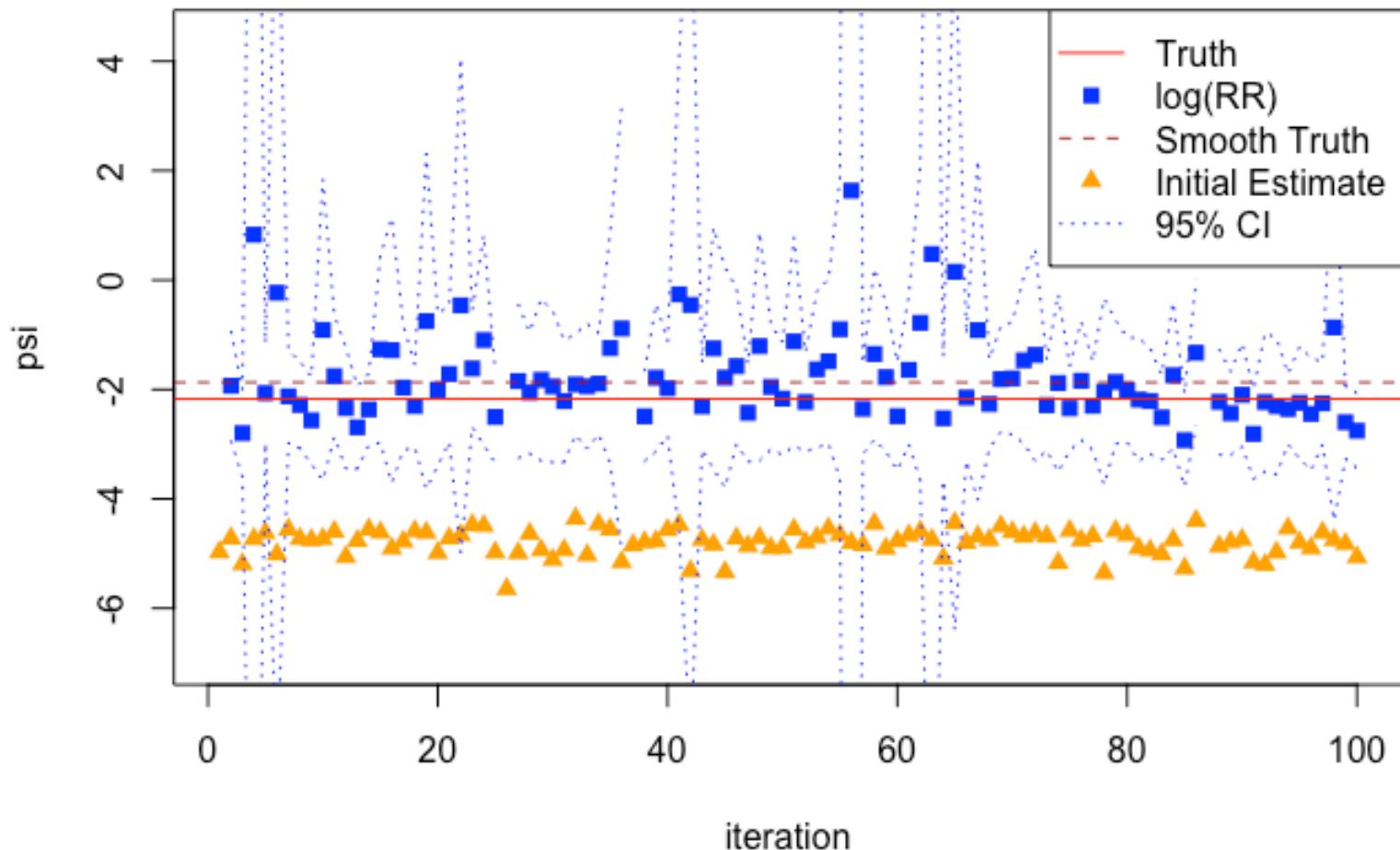
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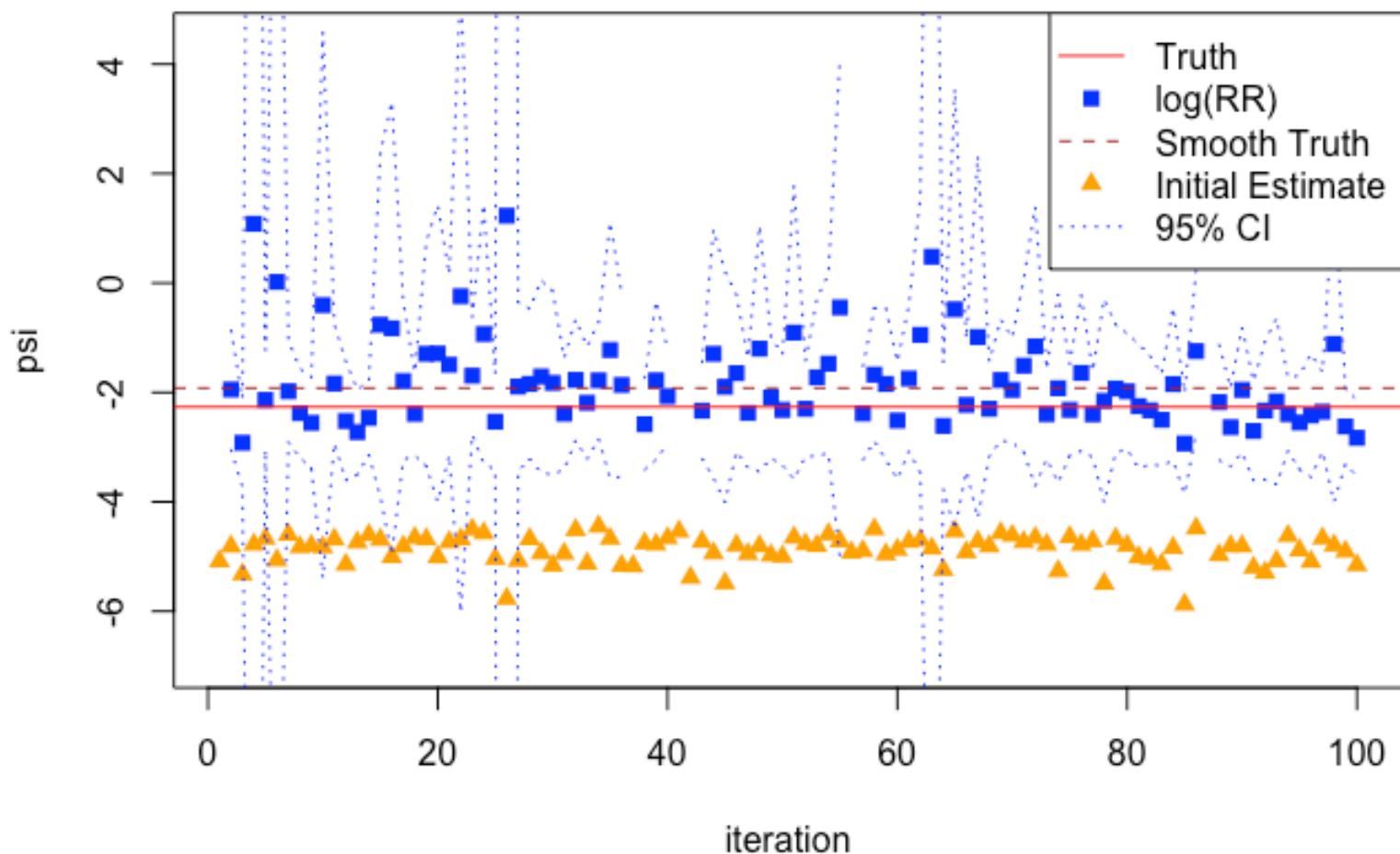
$s_1=0.3$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.5, sample rate=0.25



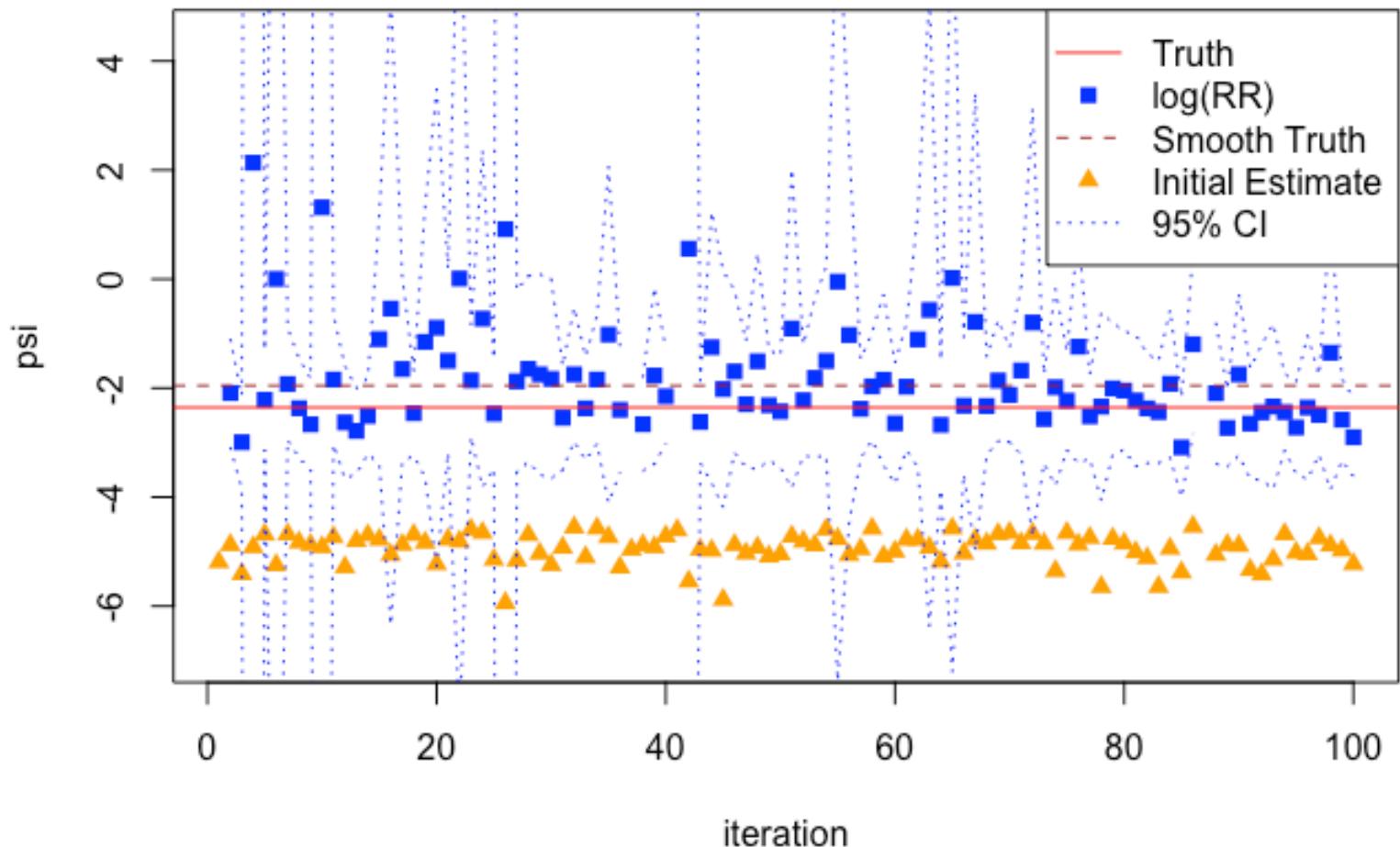
$s_1=0.4$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.5, sample rate=0.25



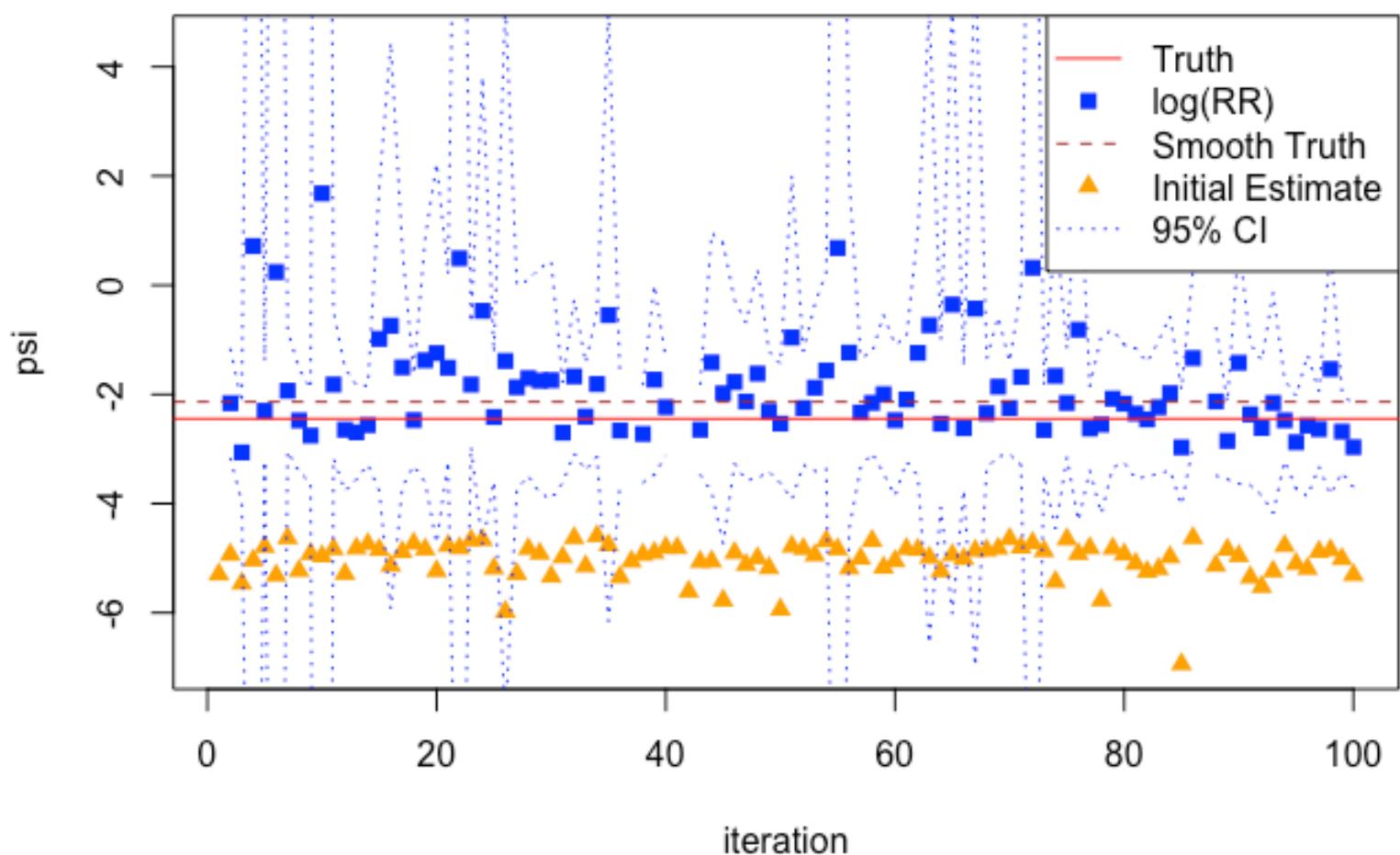
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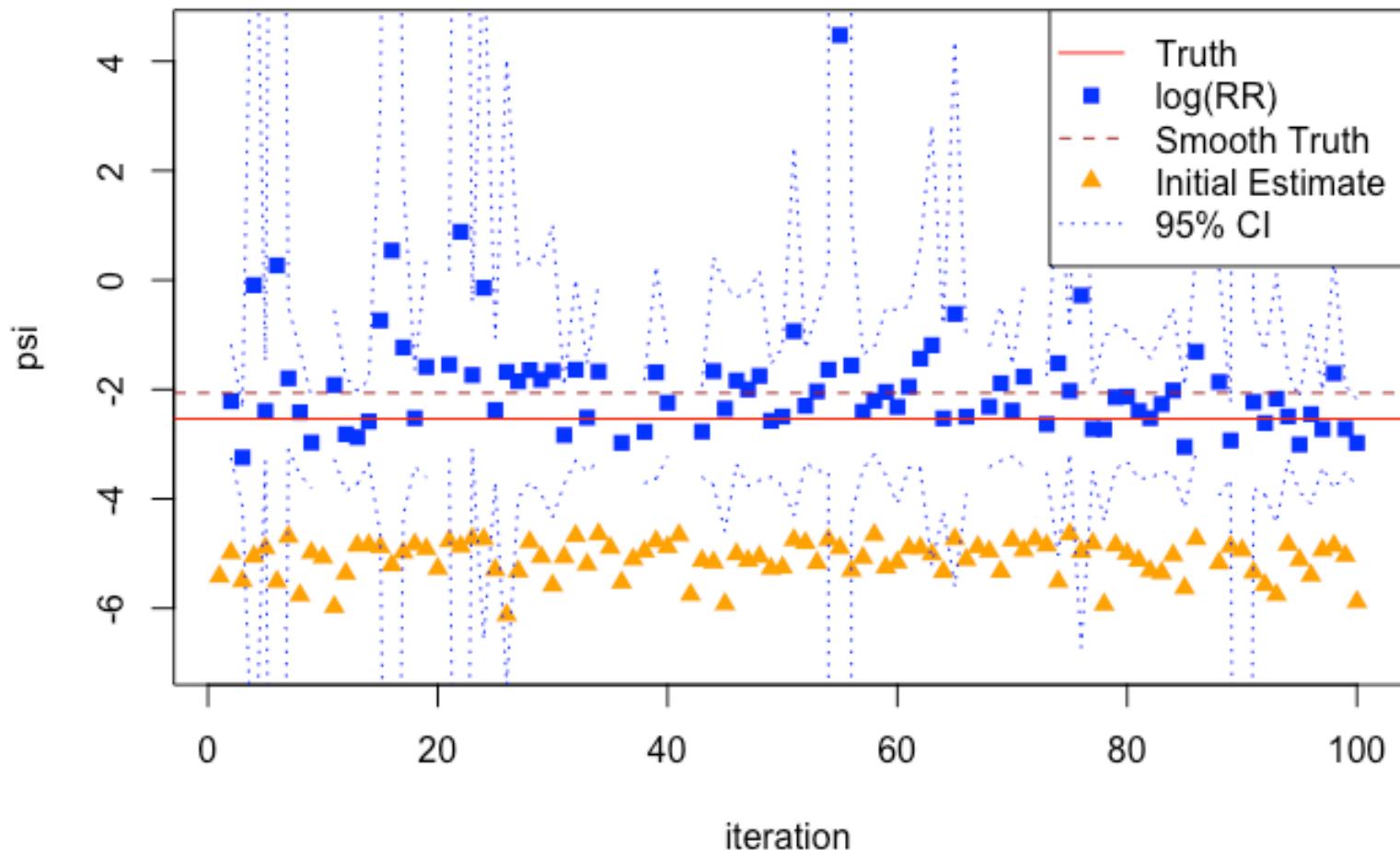
$s_1=0.6$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.5, sample rate=0.25



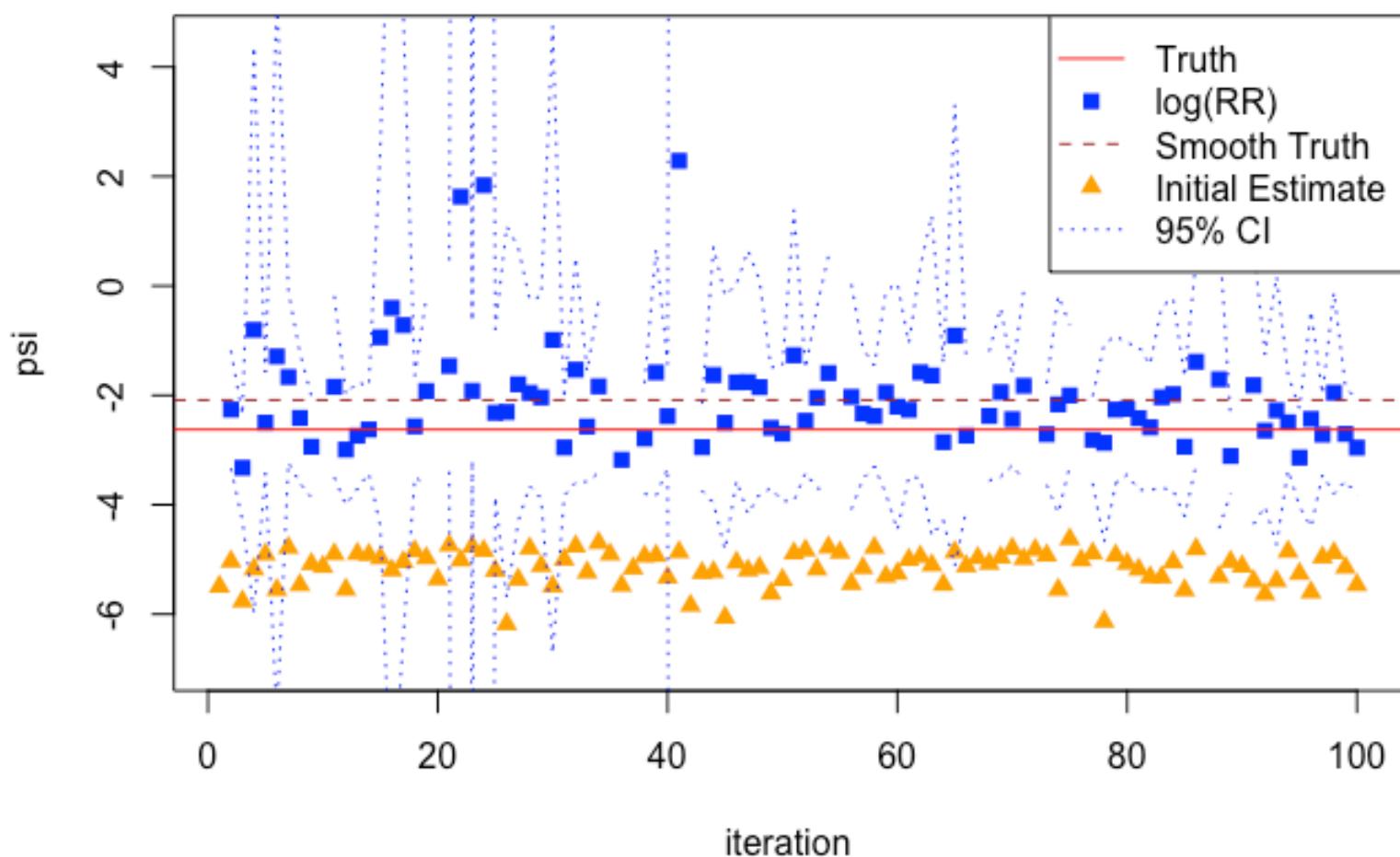
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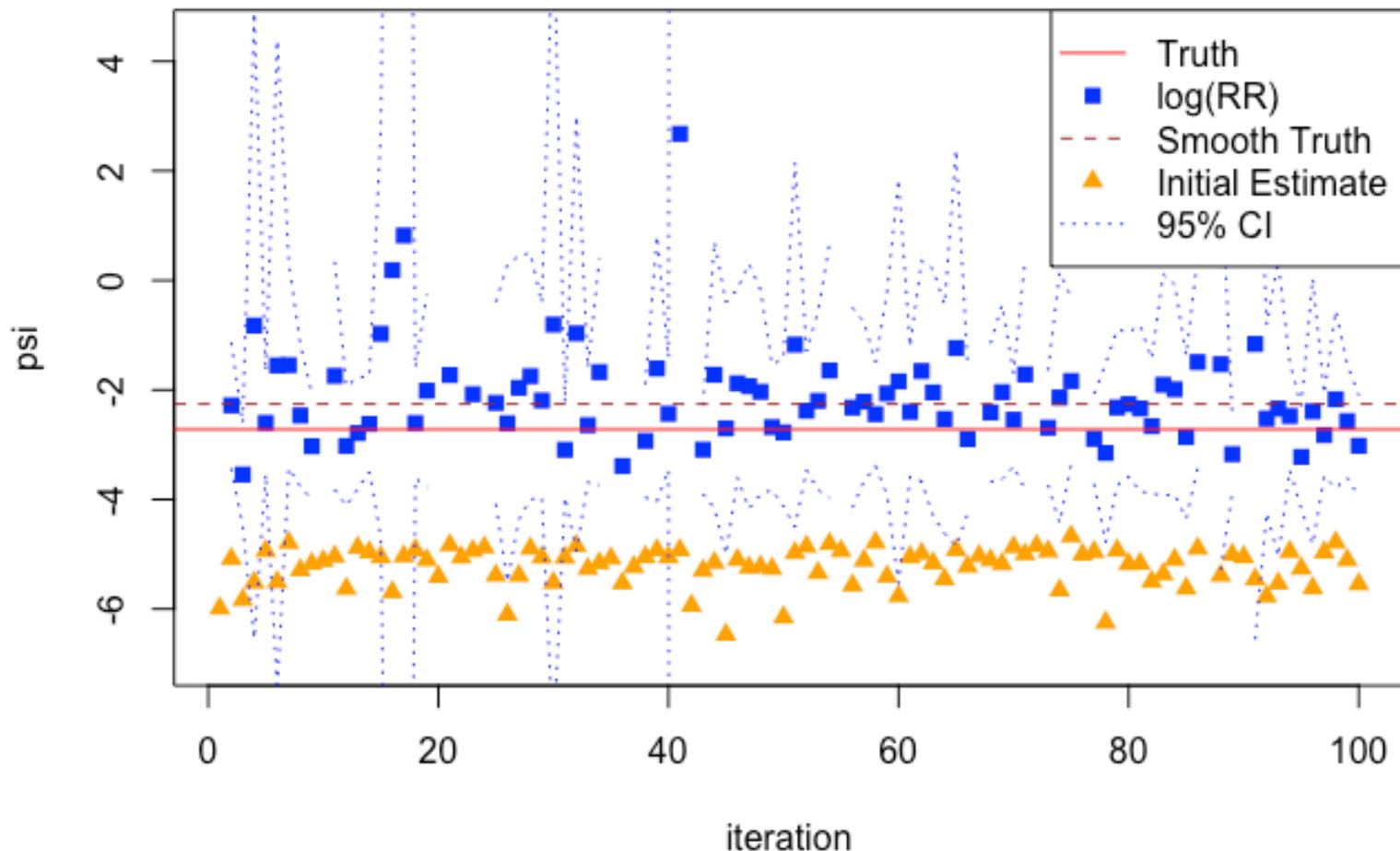
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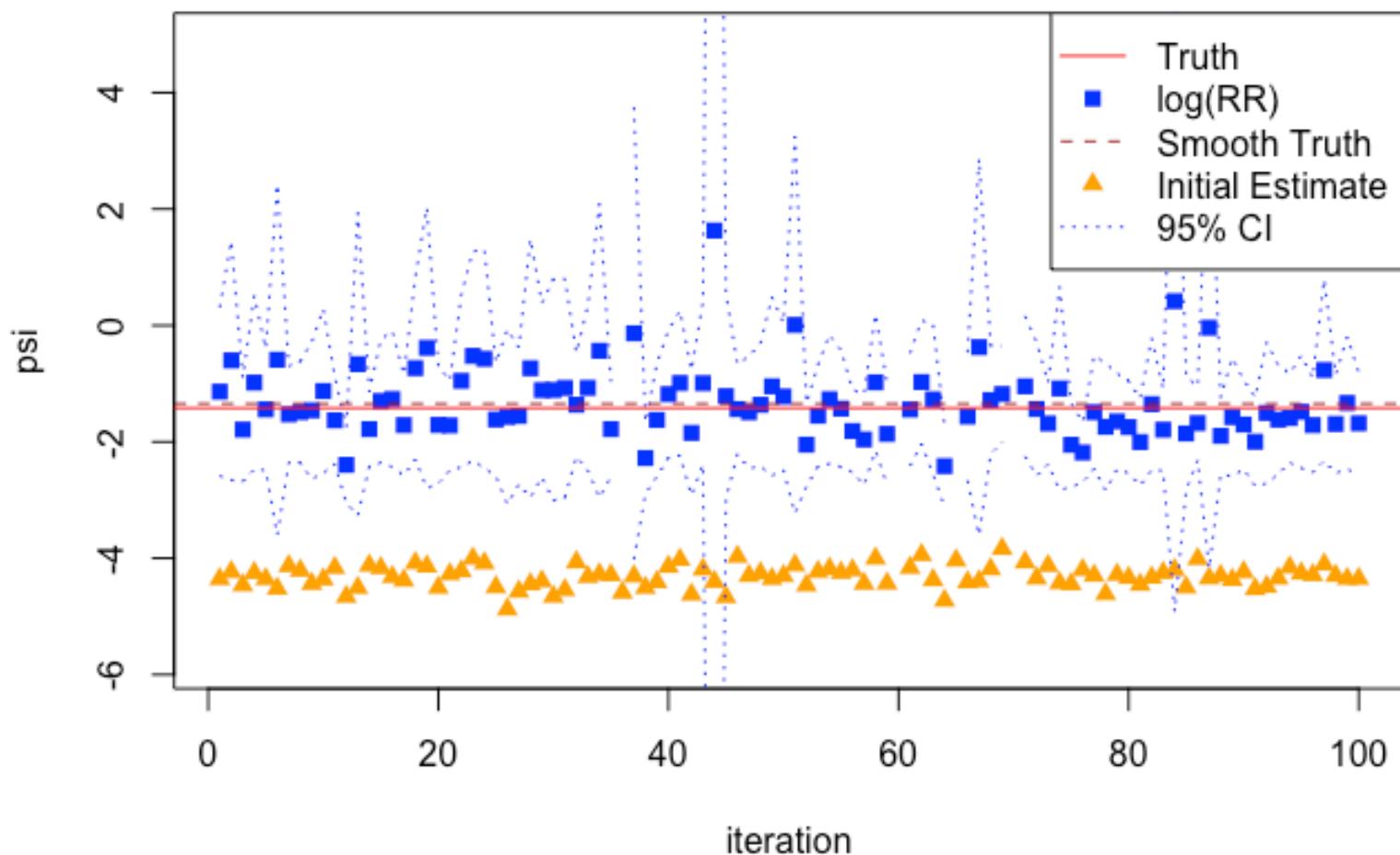
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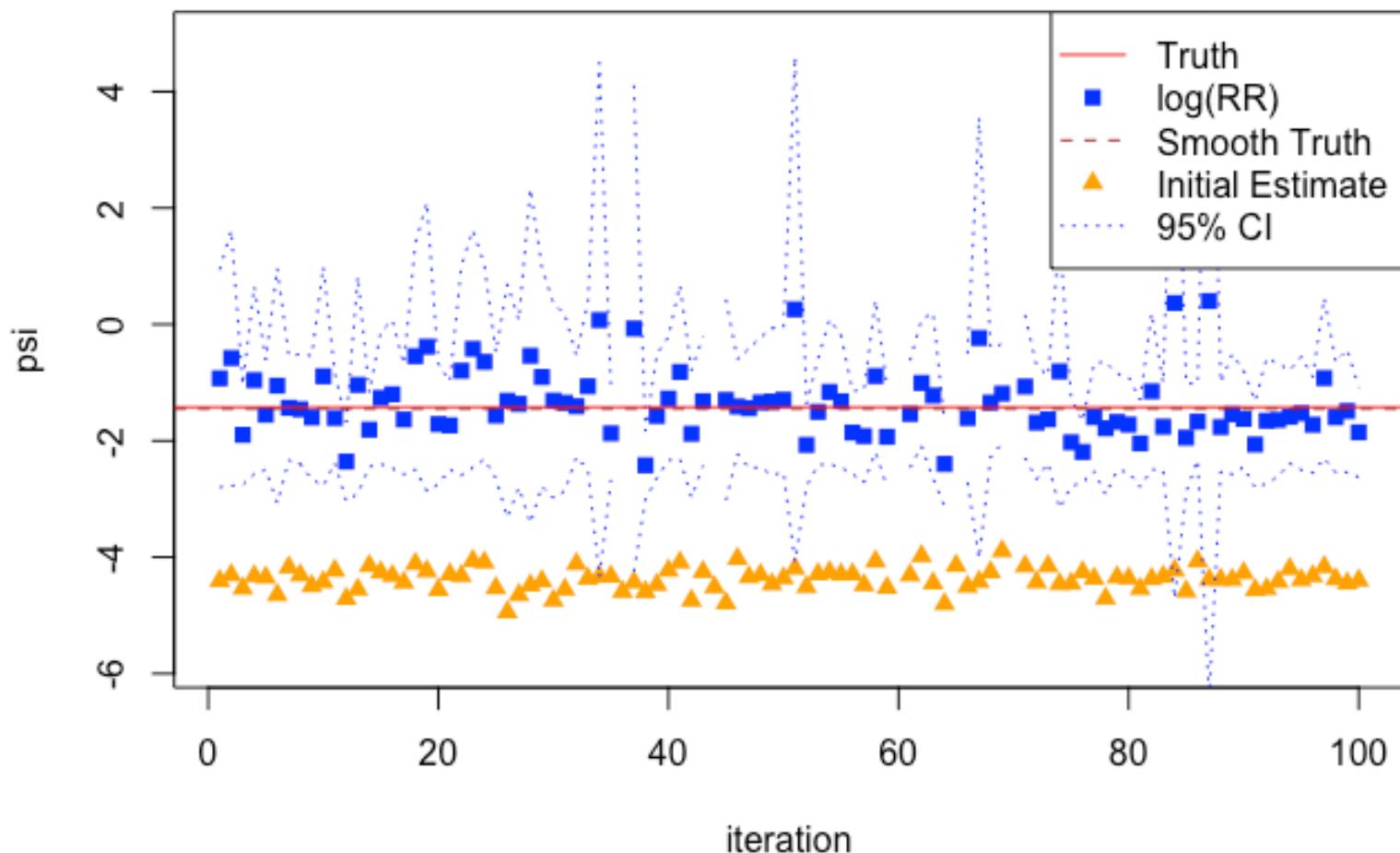
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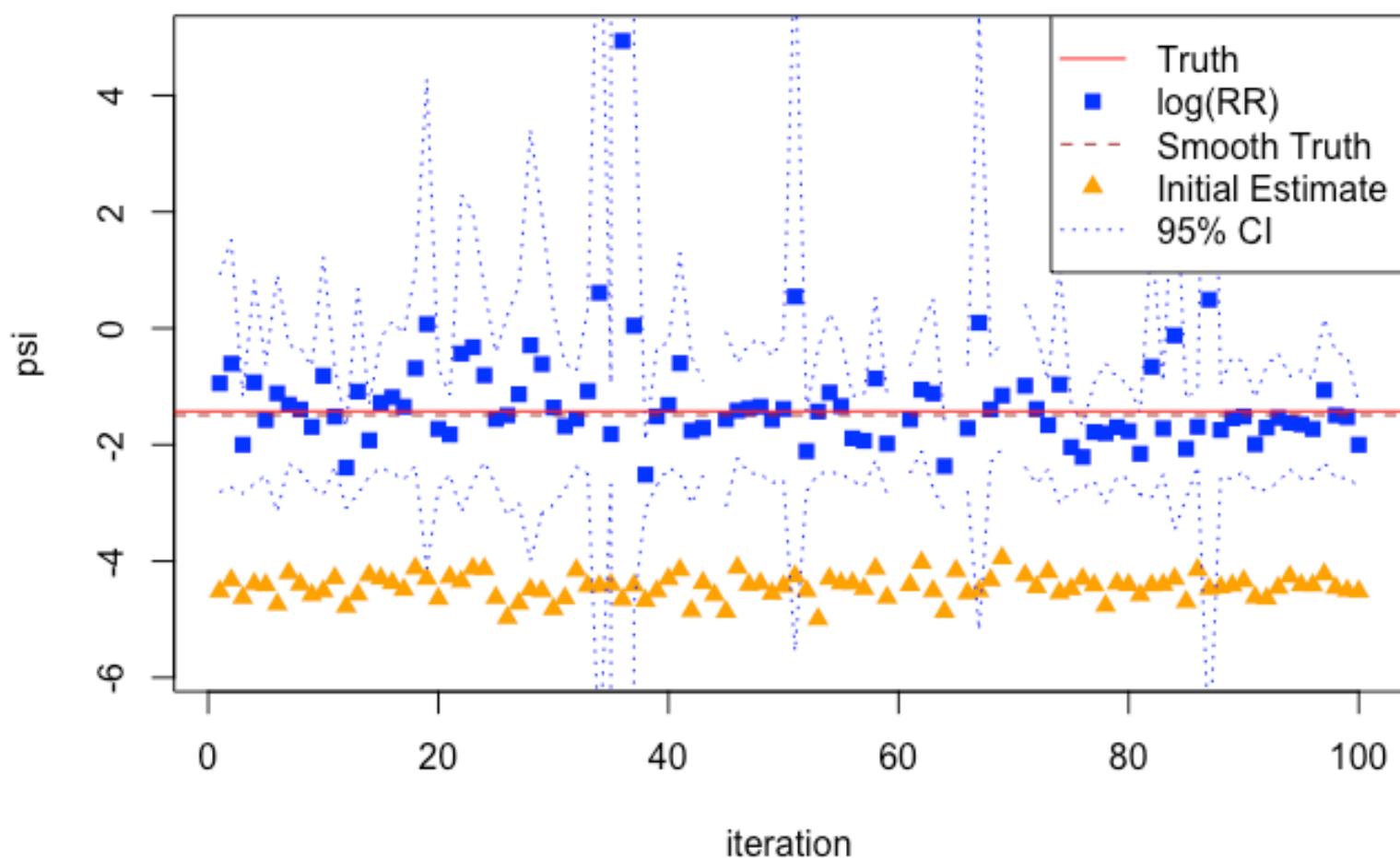
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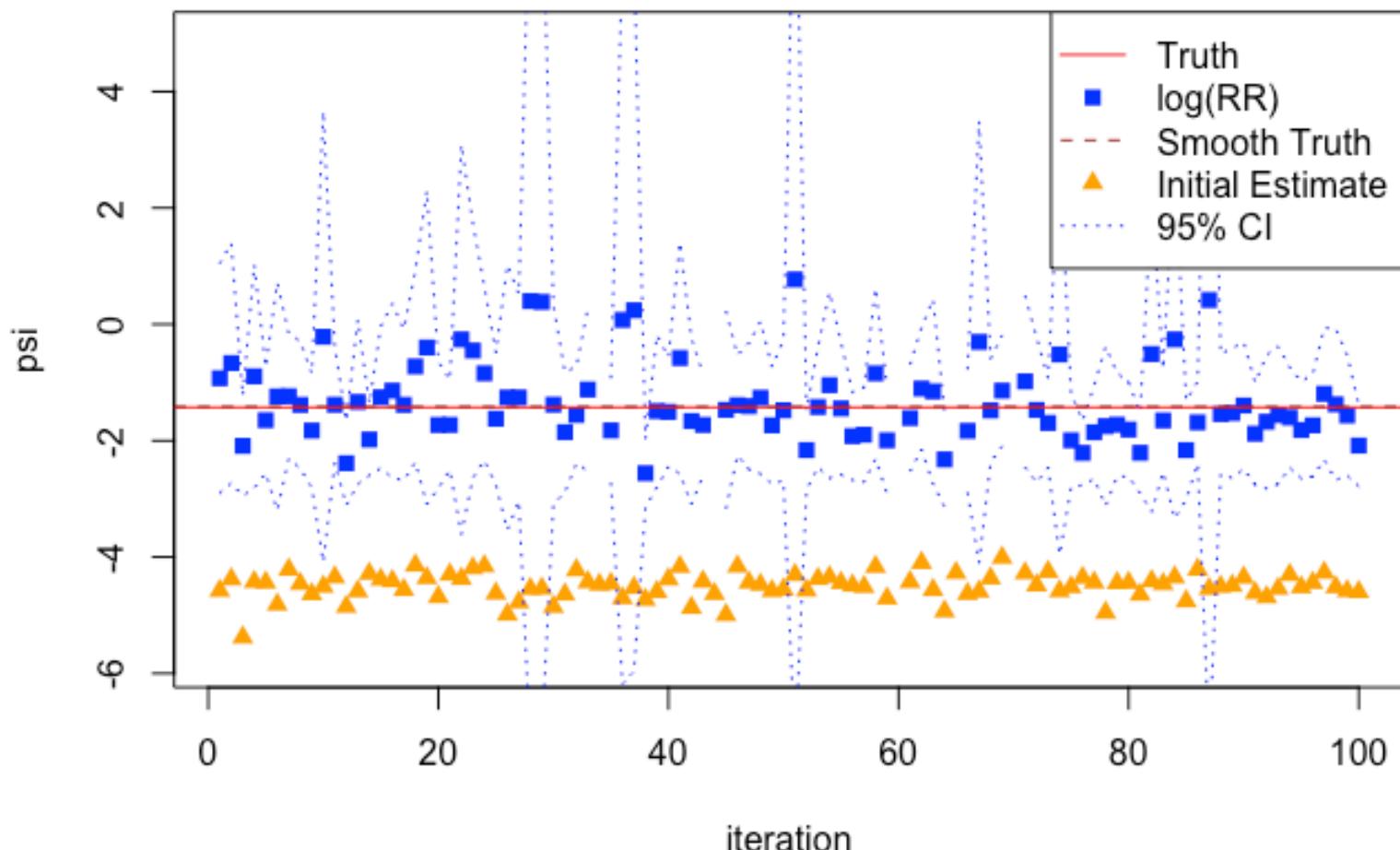
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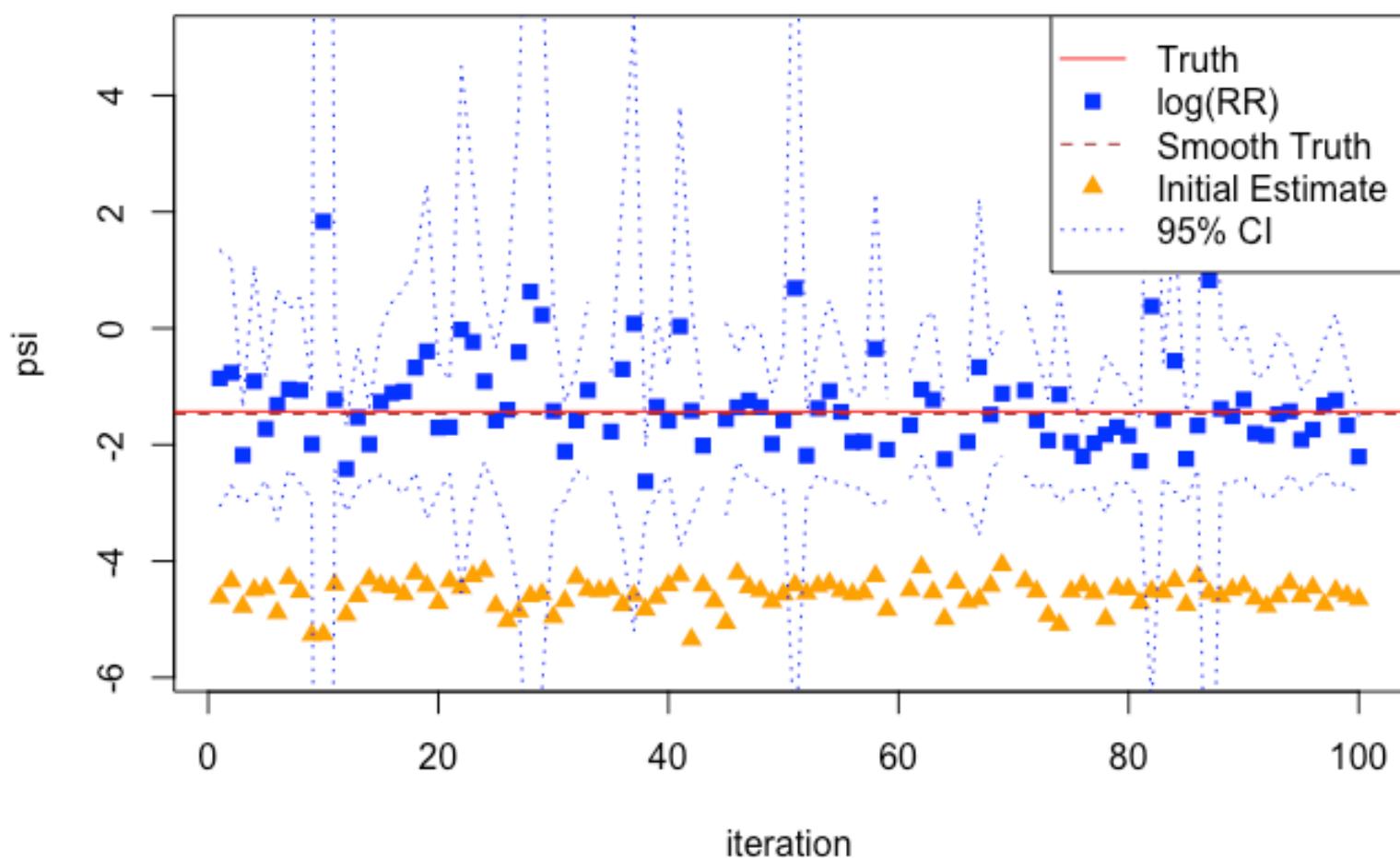
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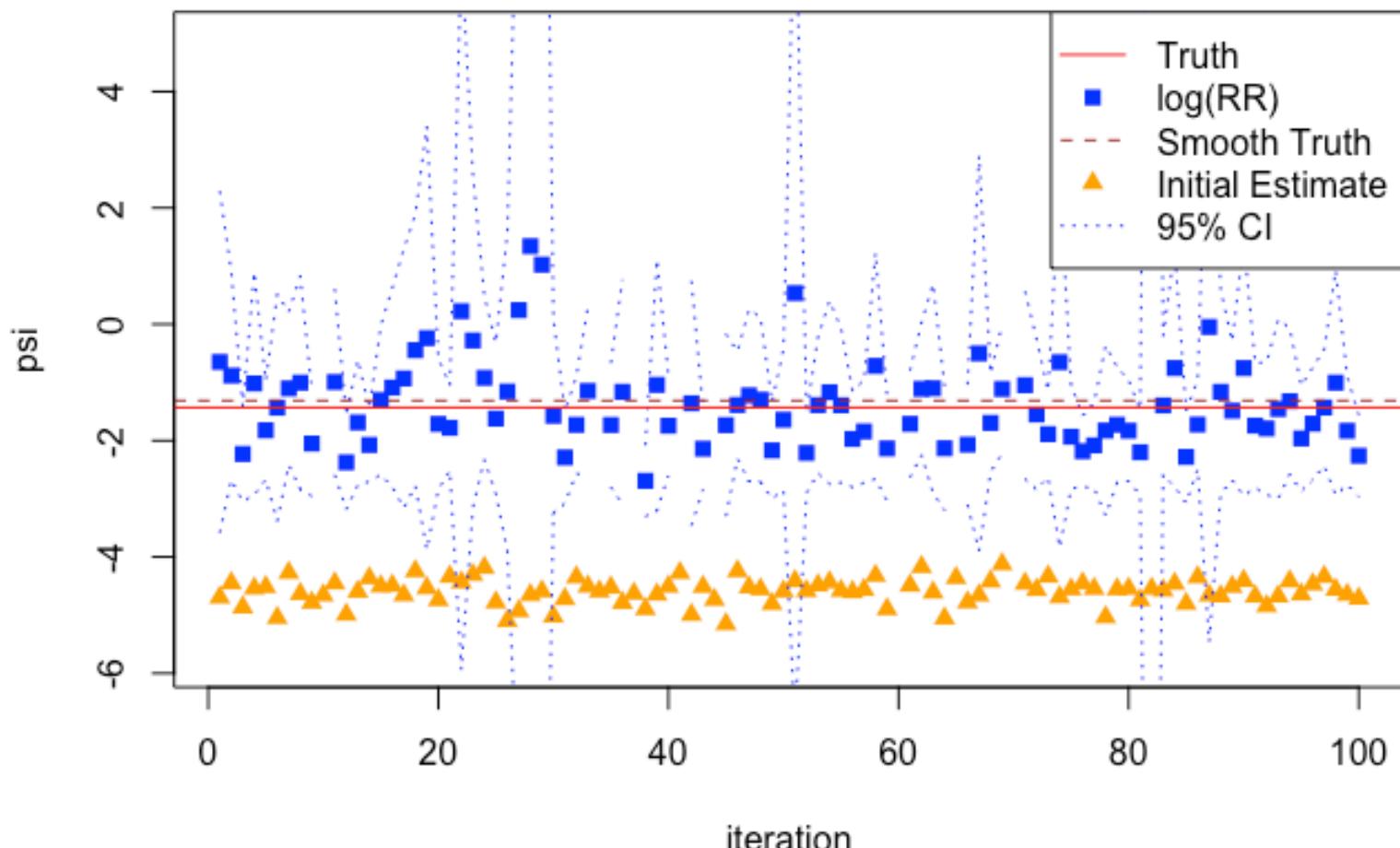
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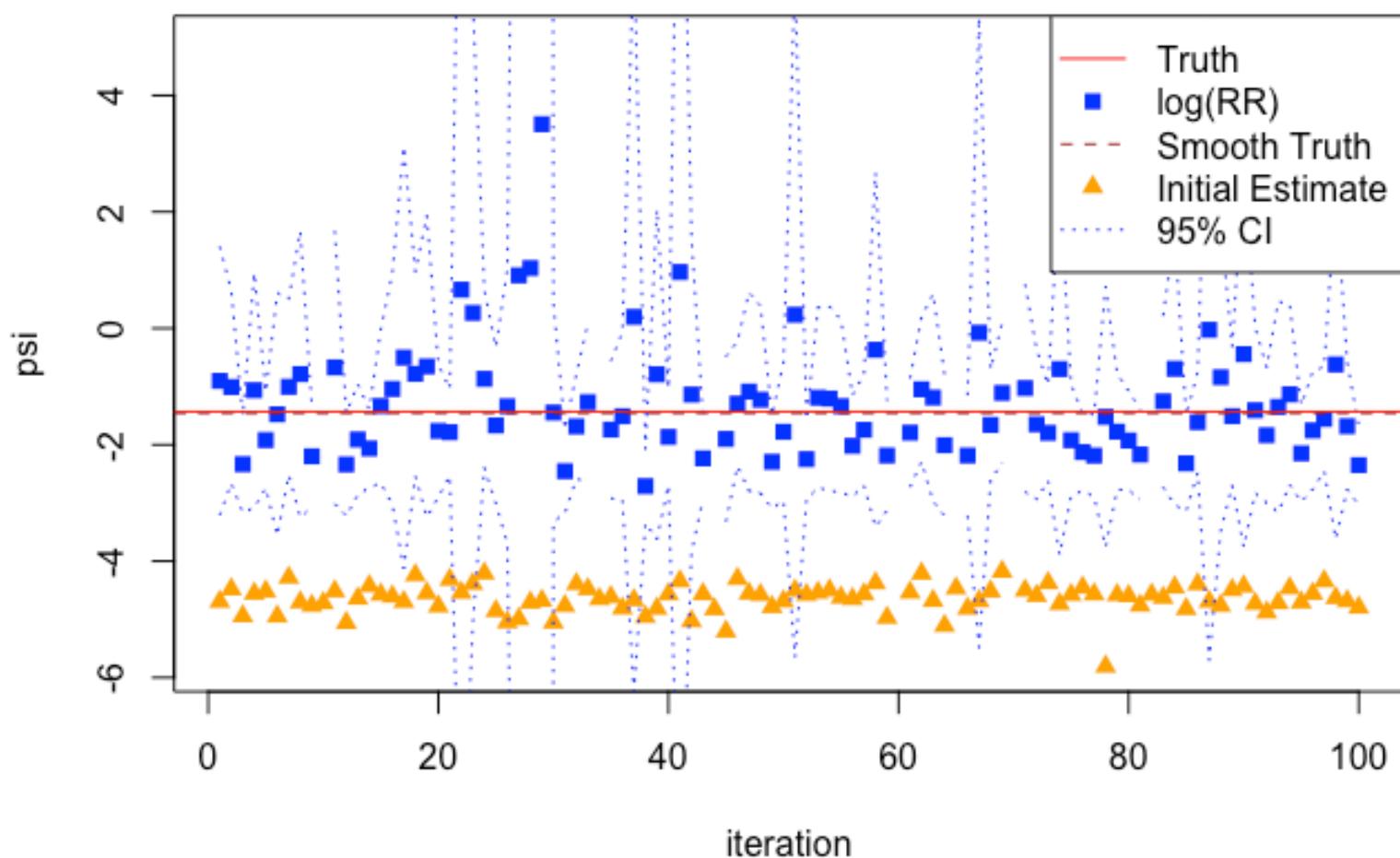
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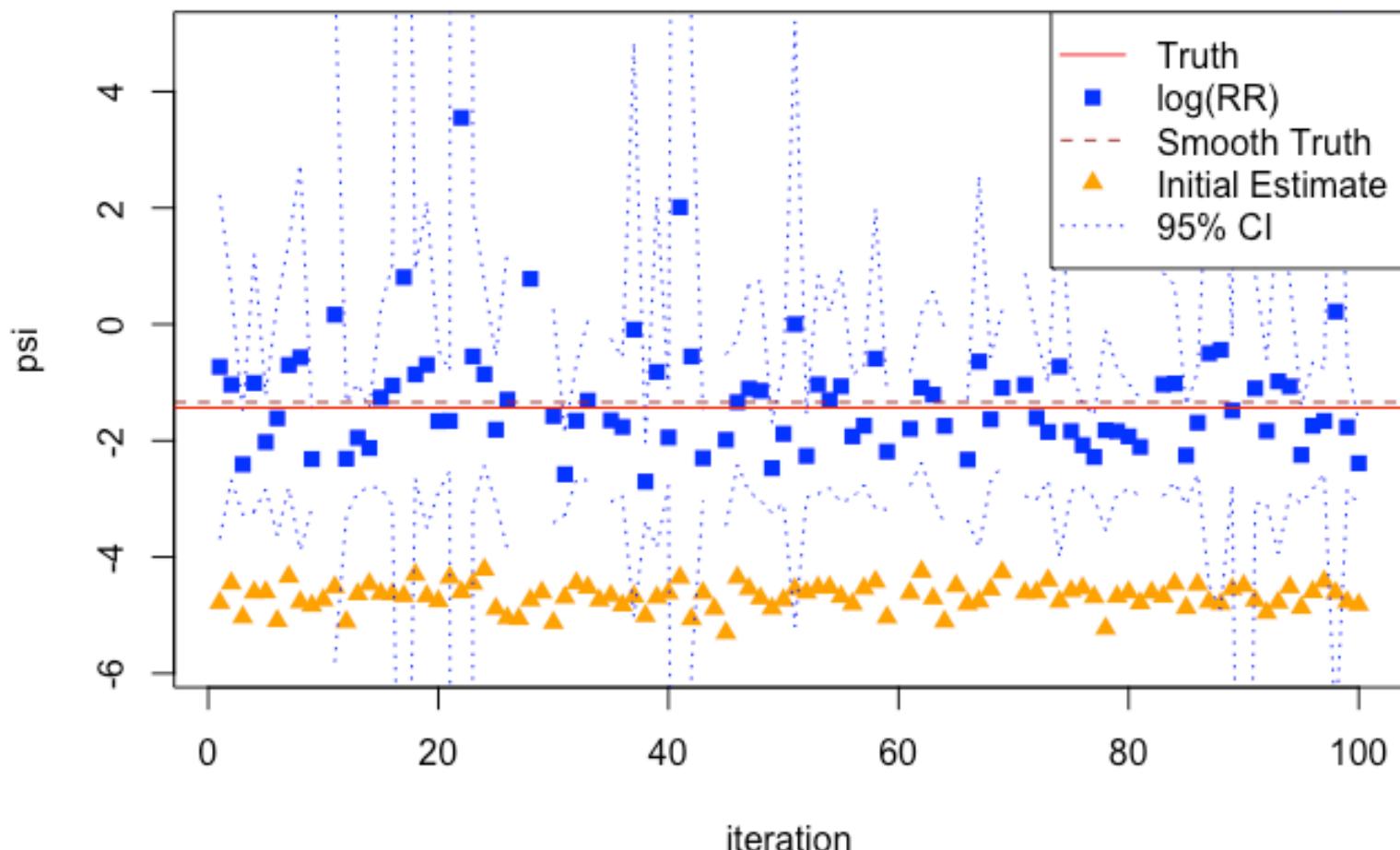
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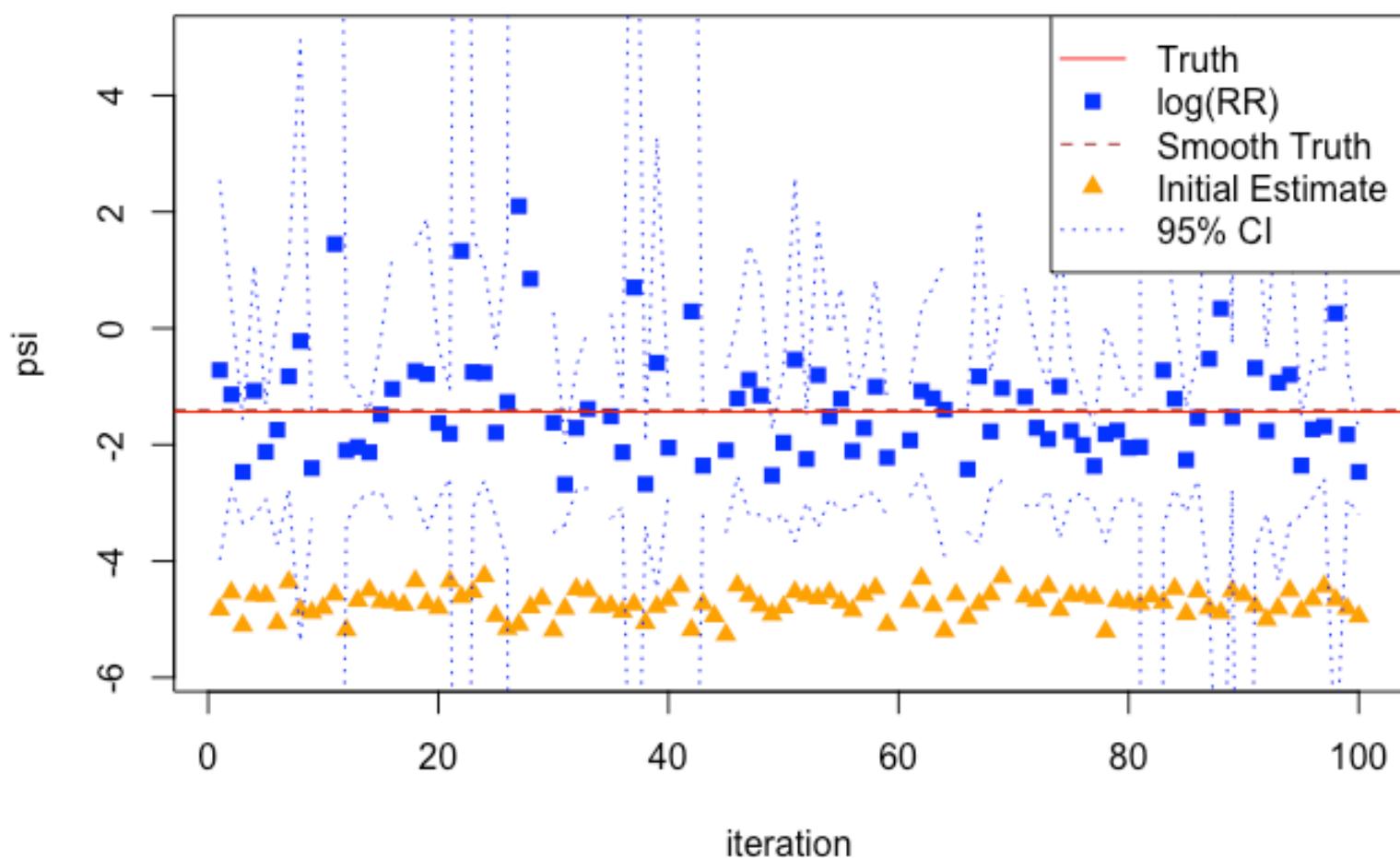
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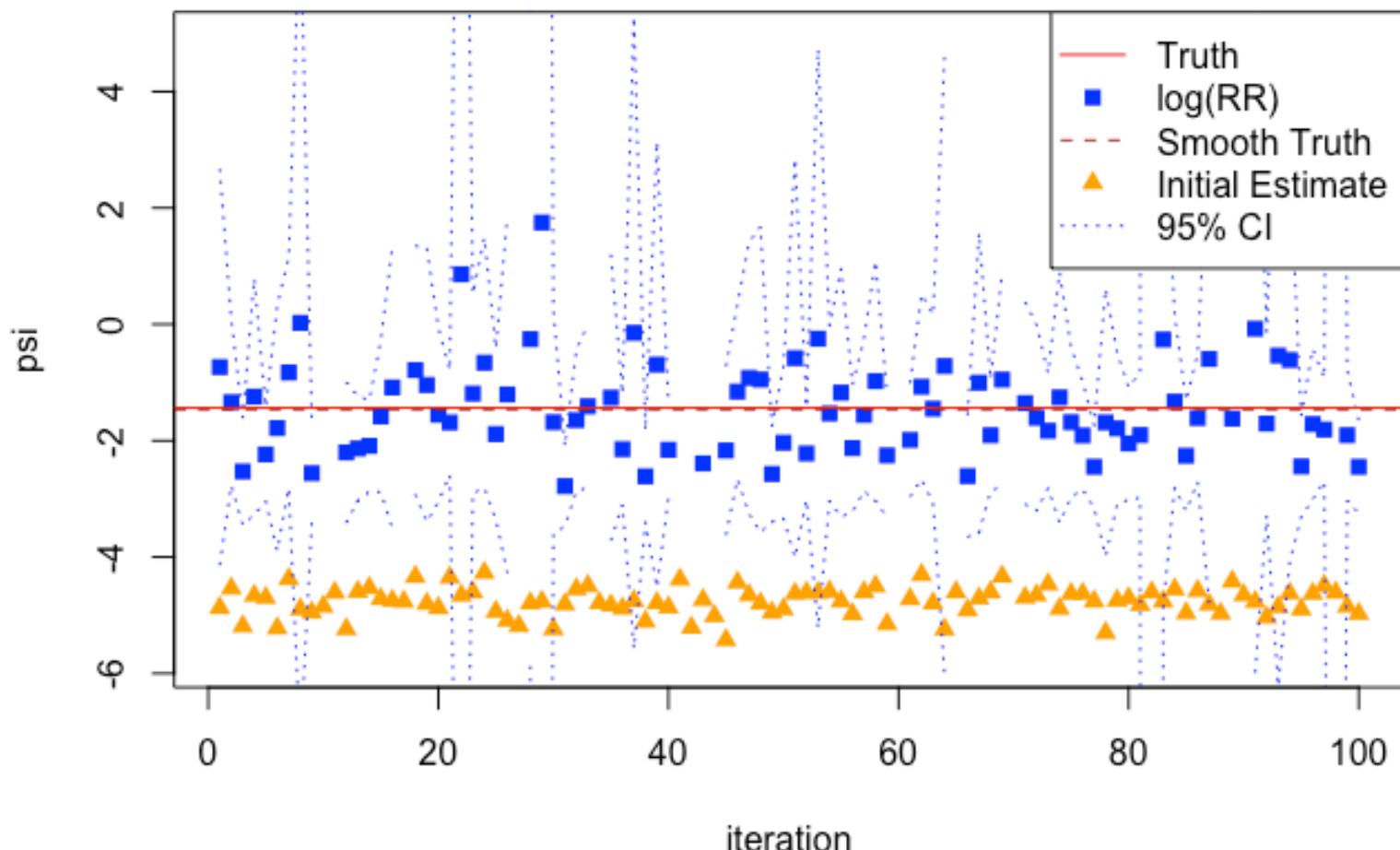
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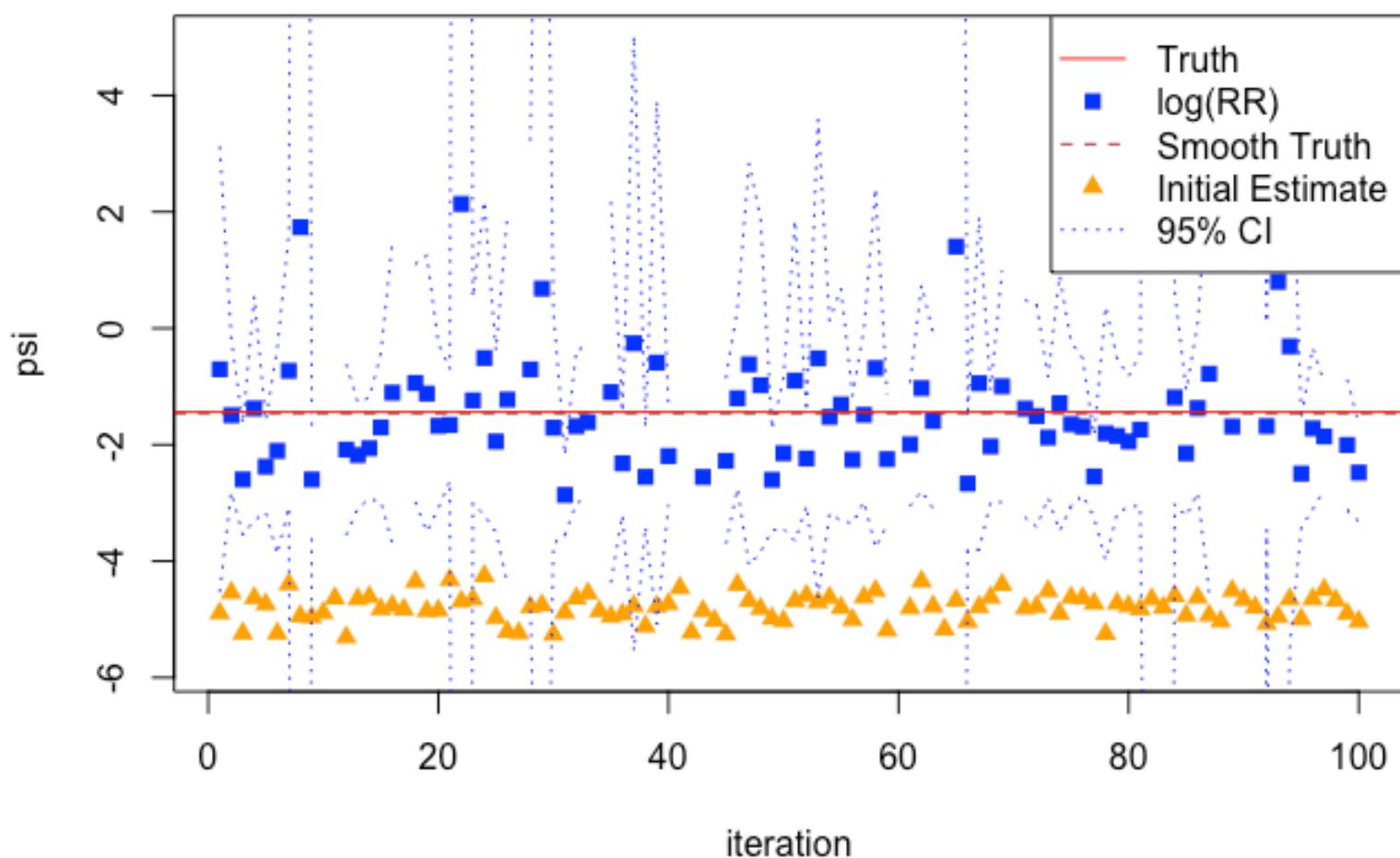
s1=0.8 Null case for $\text{cor}(S1, W)=0.75$, crossover rate=0.5, sample rate=0.5



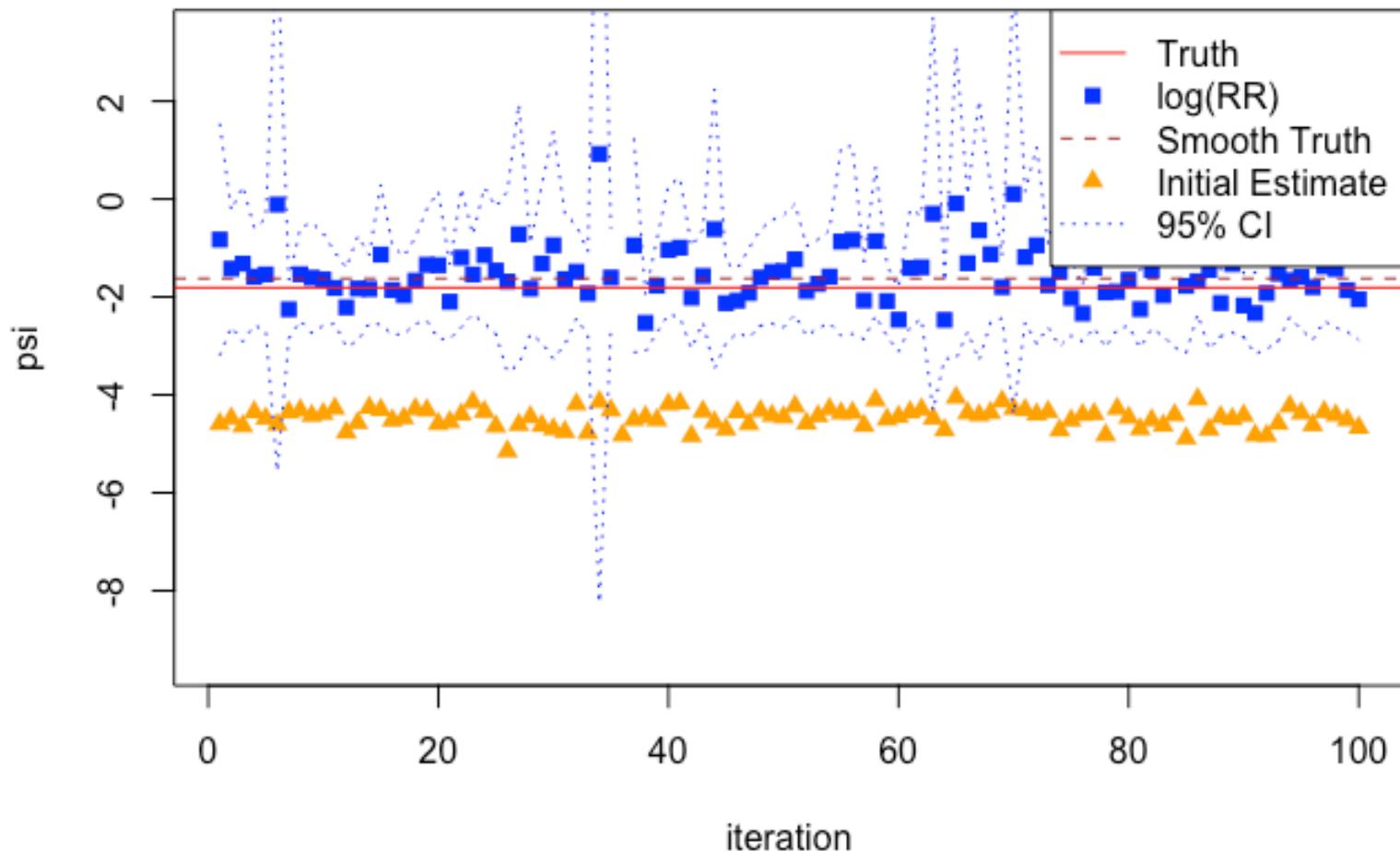
s1=0.9 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=0.5, sample rate=0.5



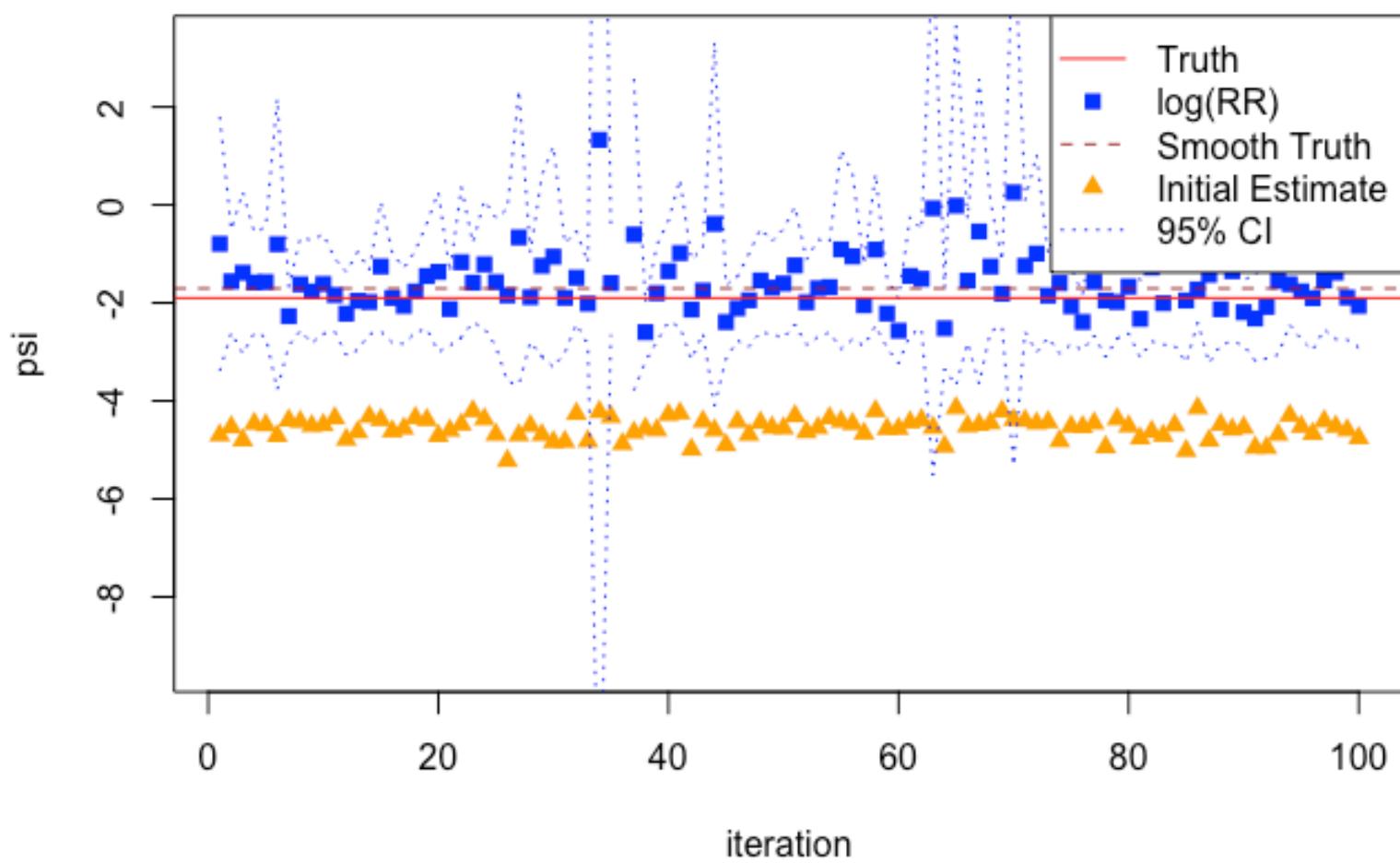
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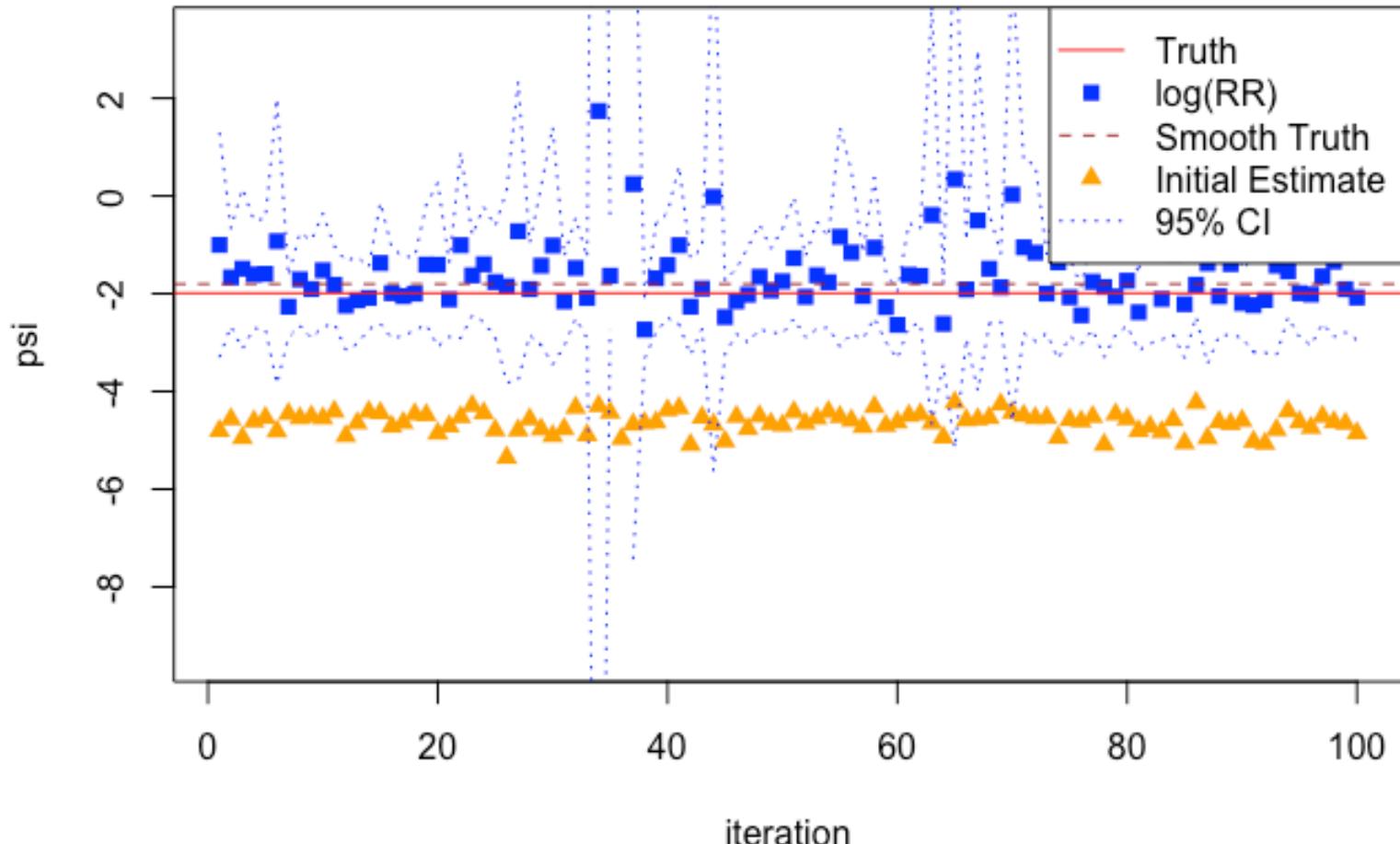
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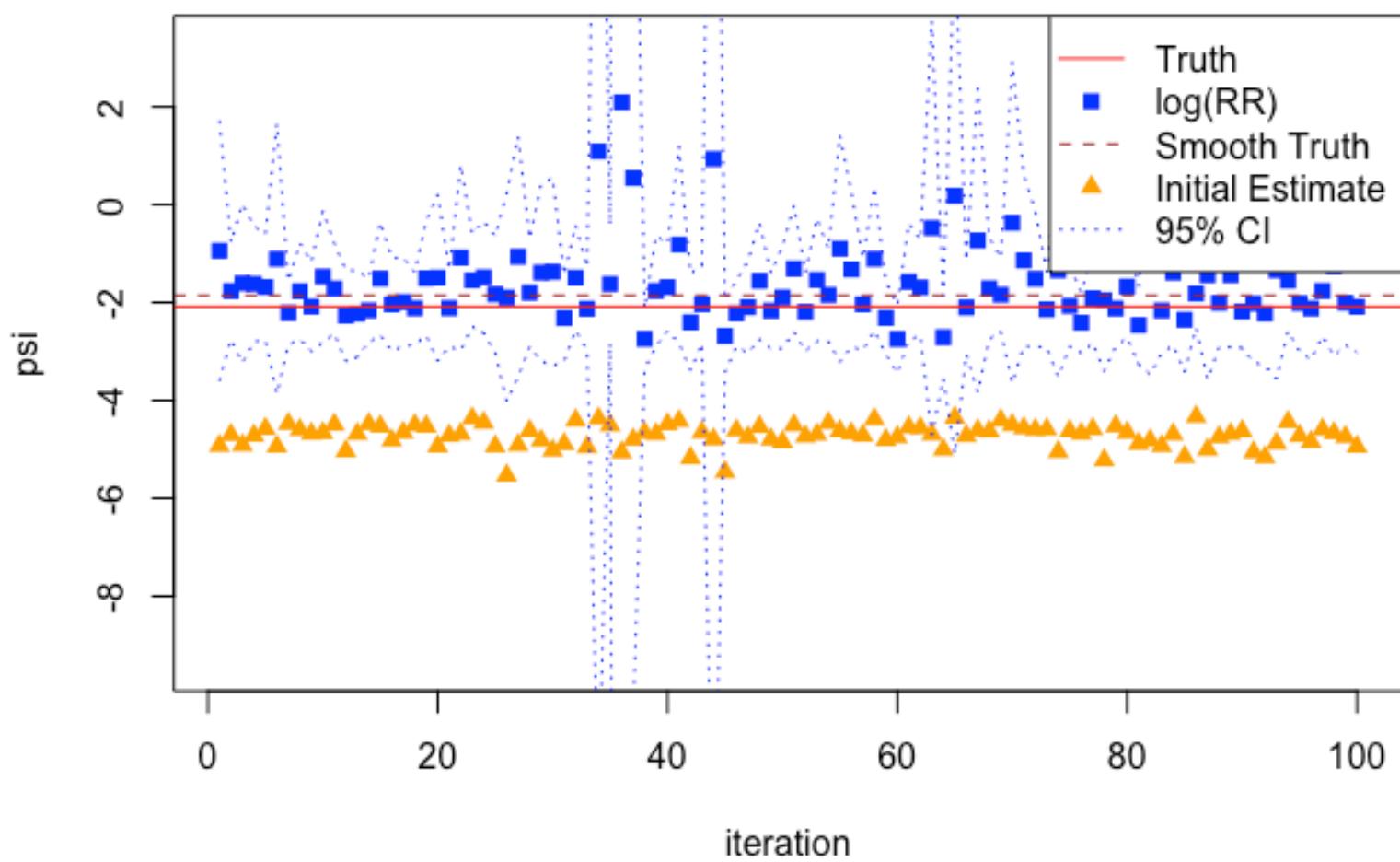
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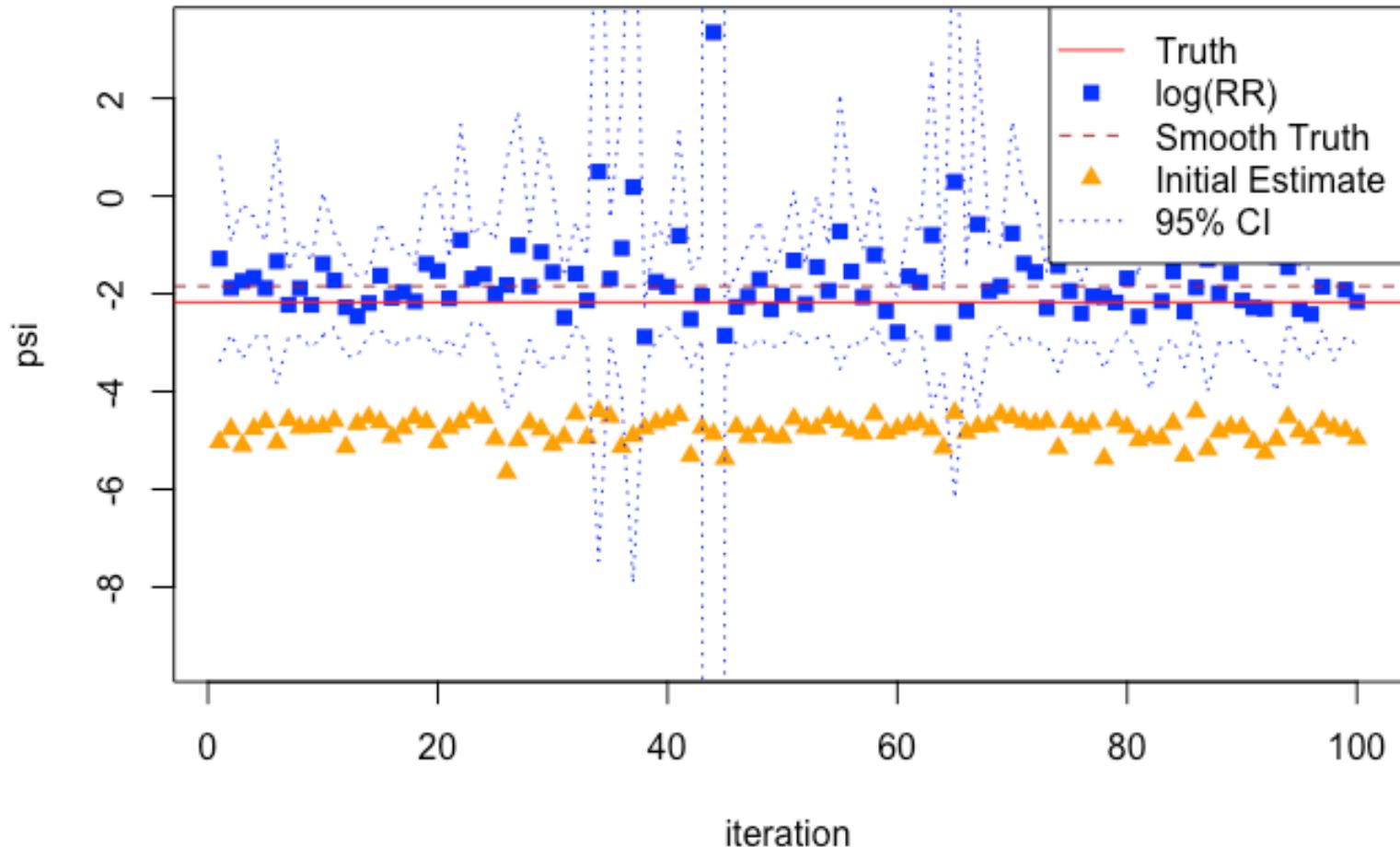
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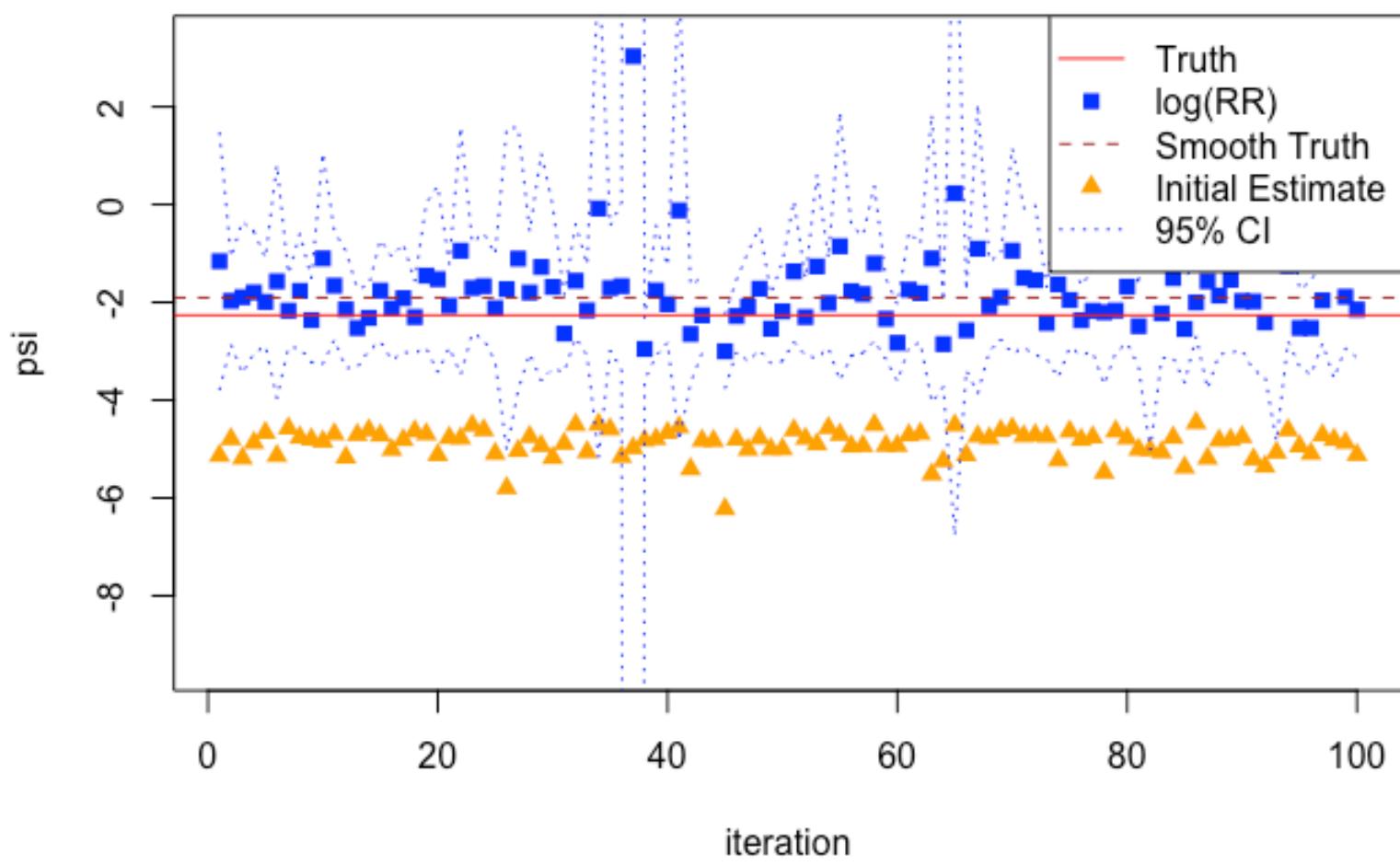
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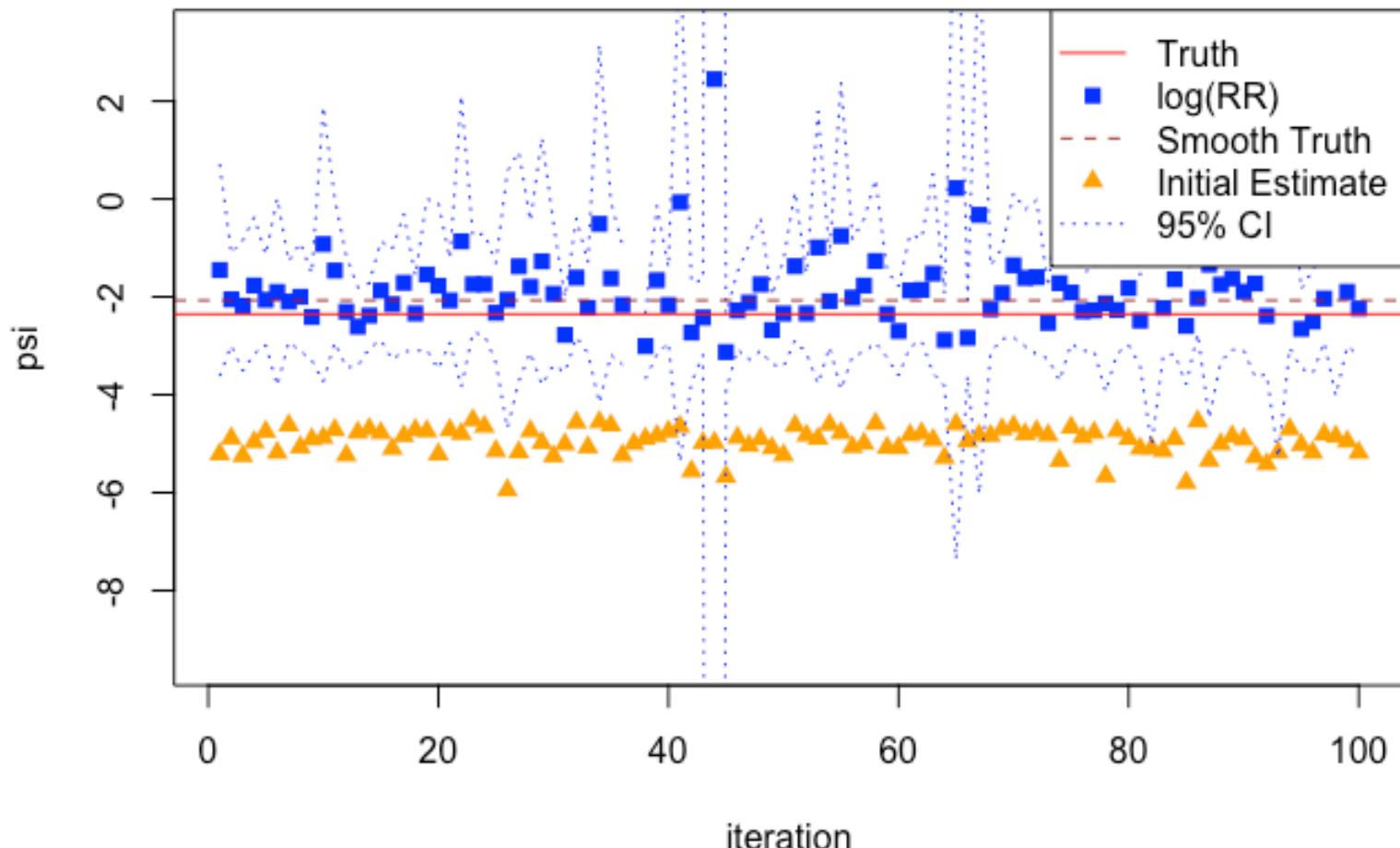
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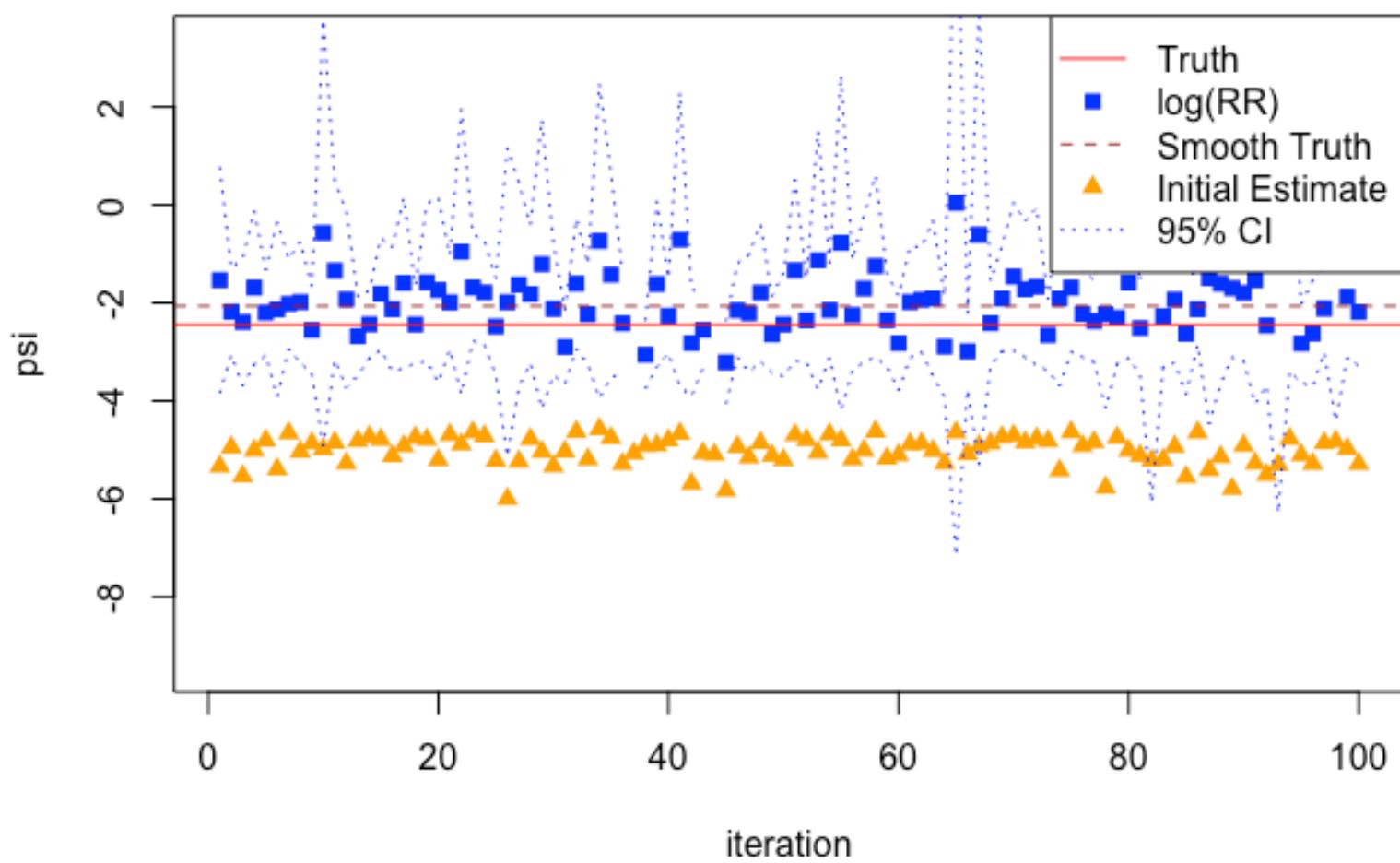
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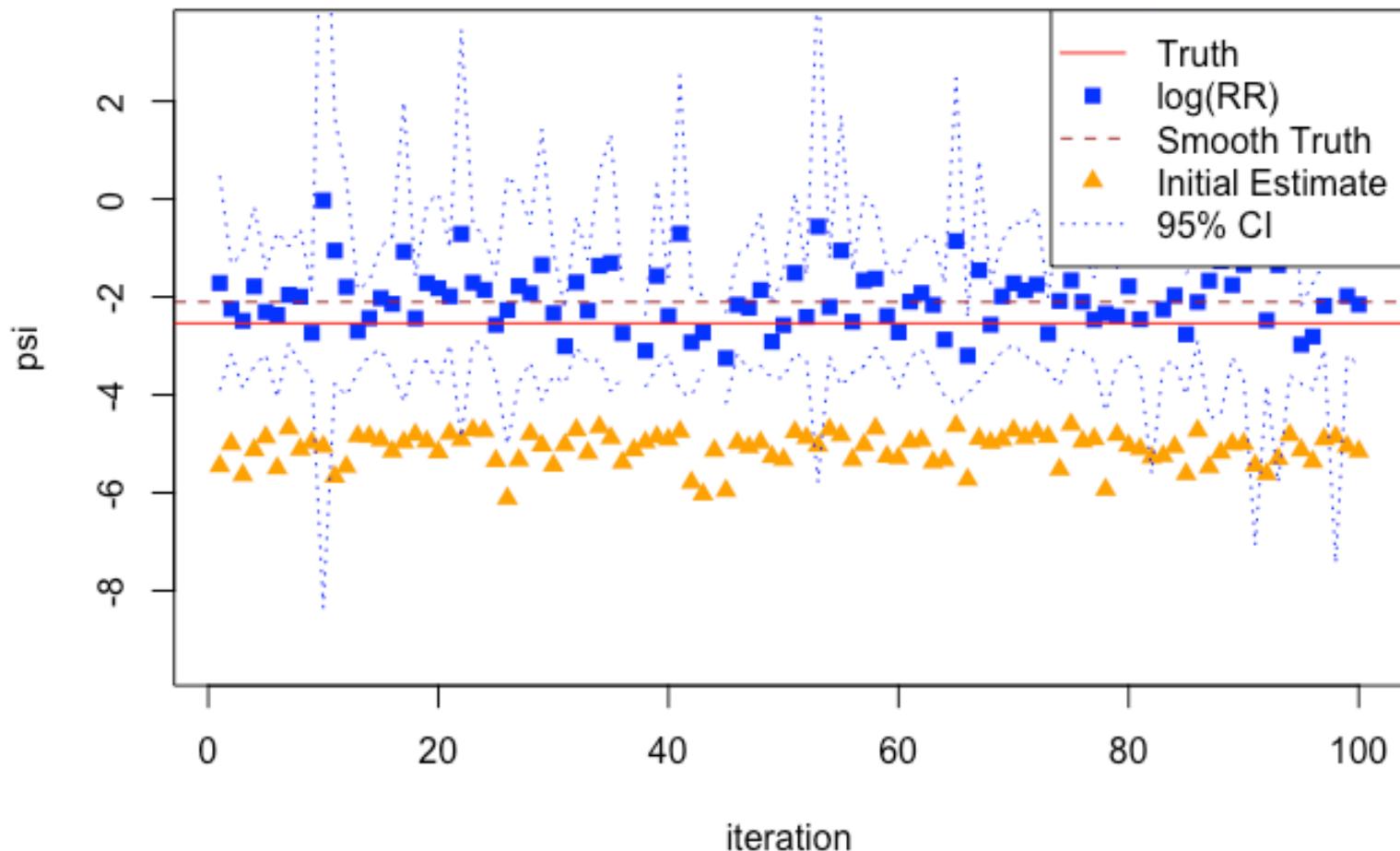
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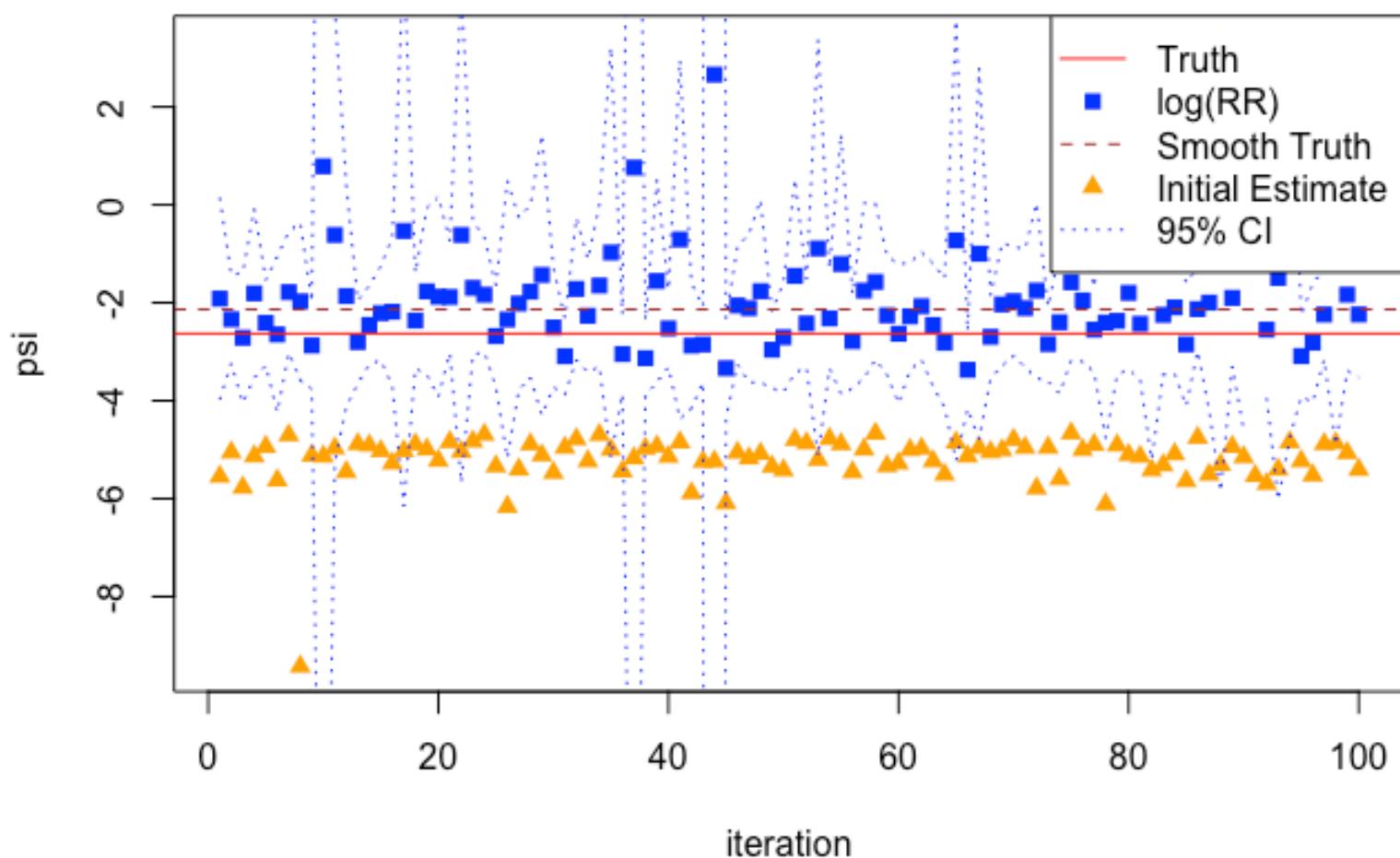
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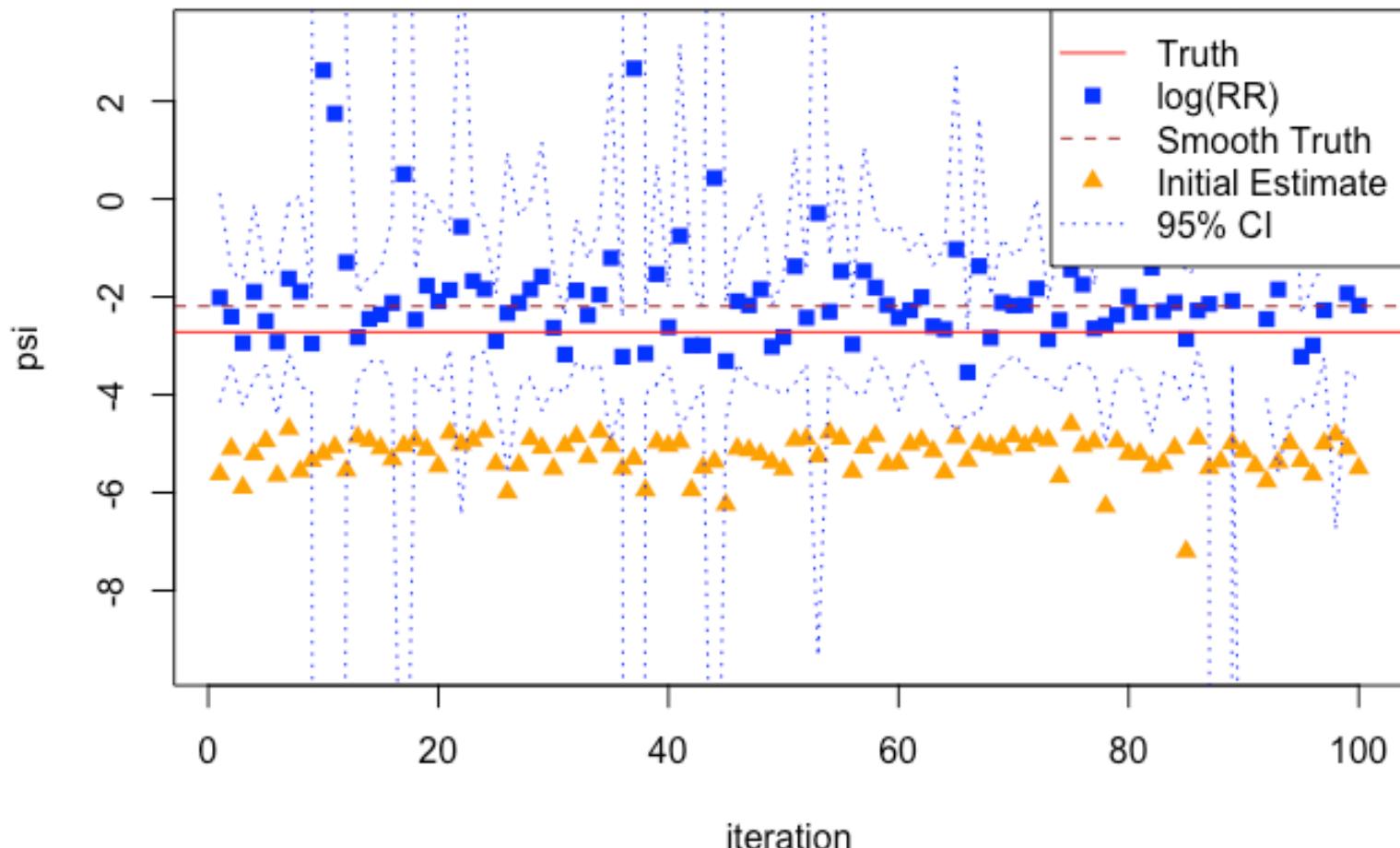
$s_1=0.8$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.5, sample rate=0.5



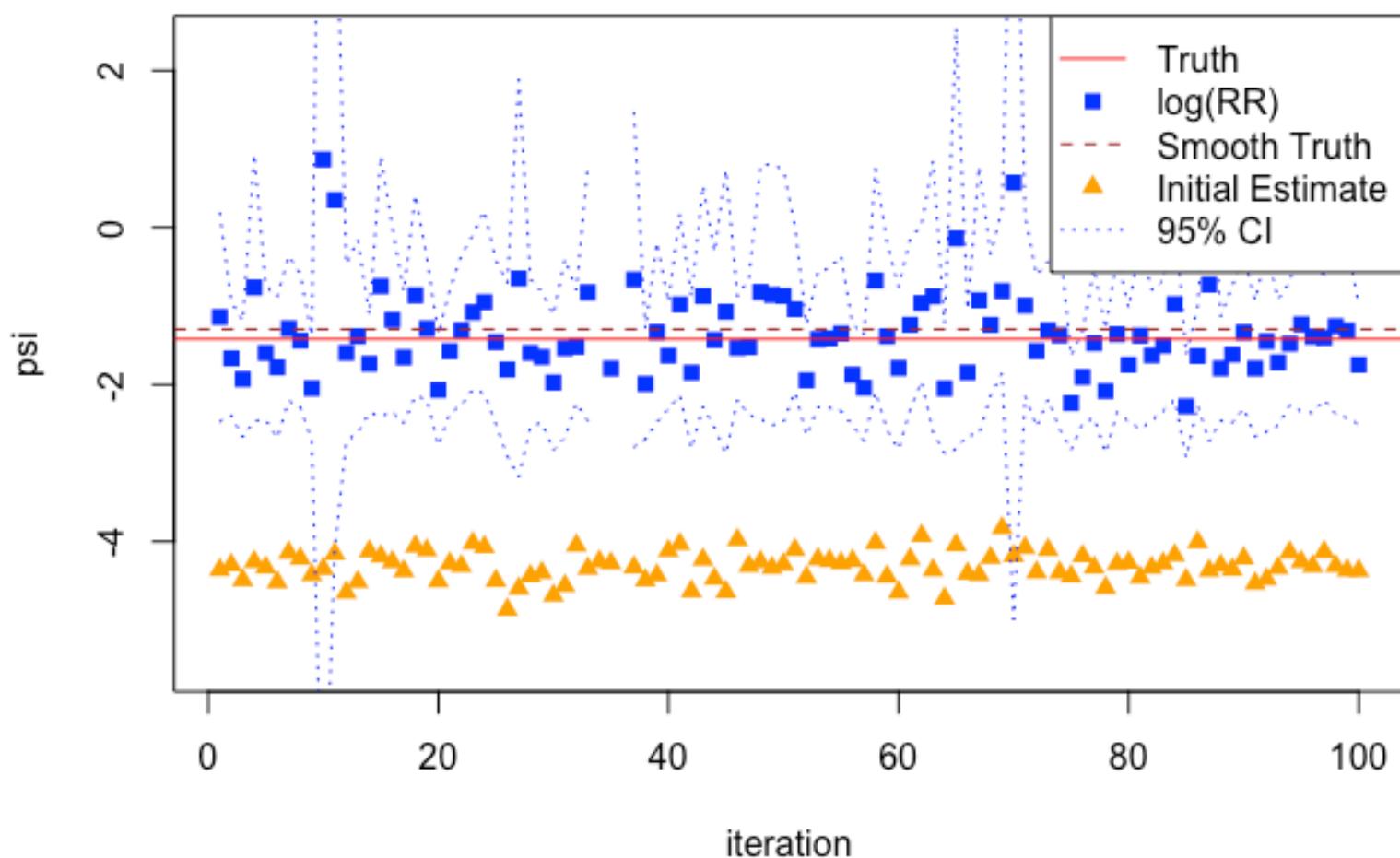
$s_1=0.9$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=0.5, sample rate=0.5



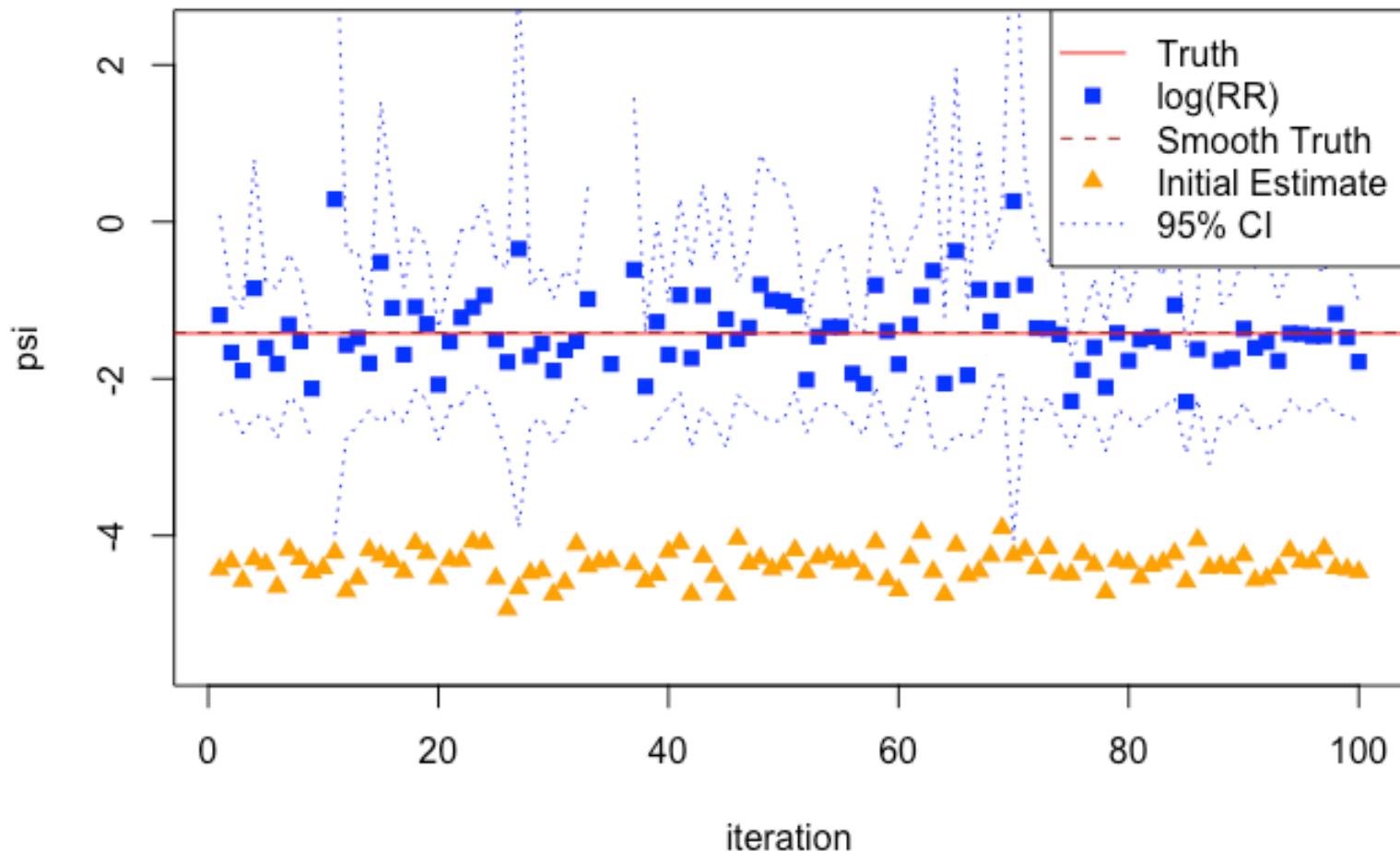
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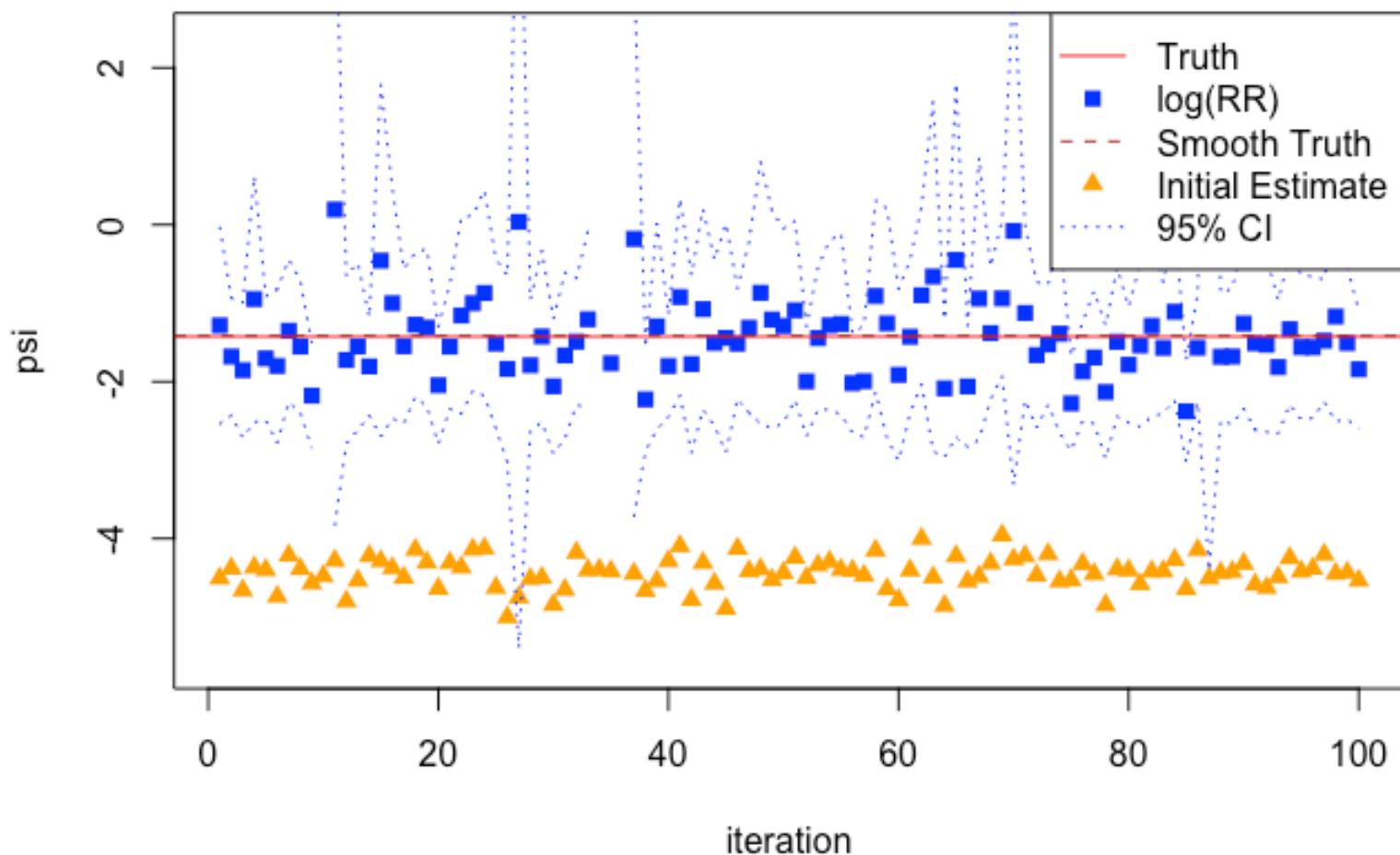
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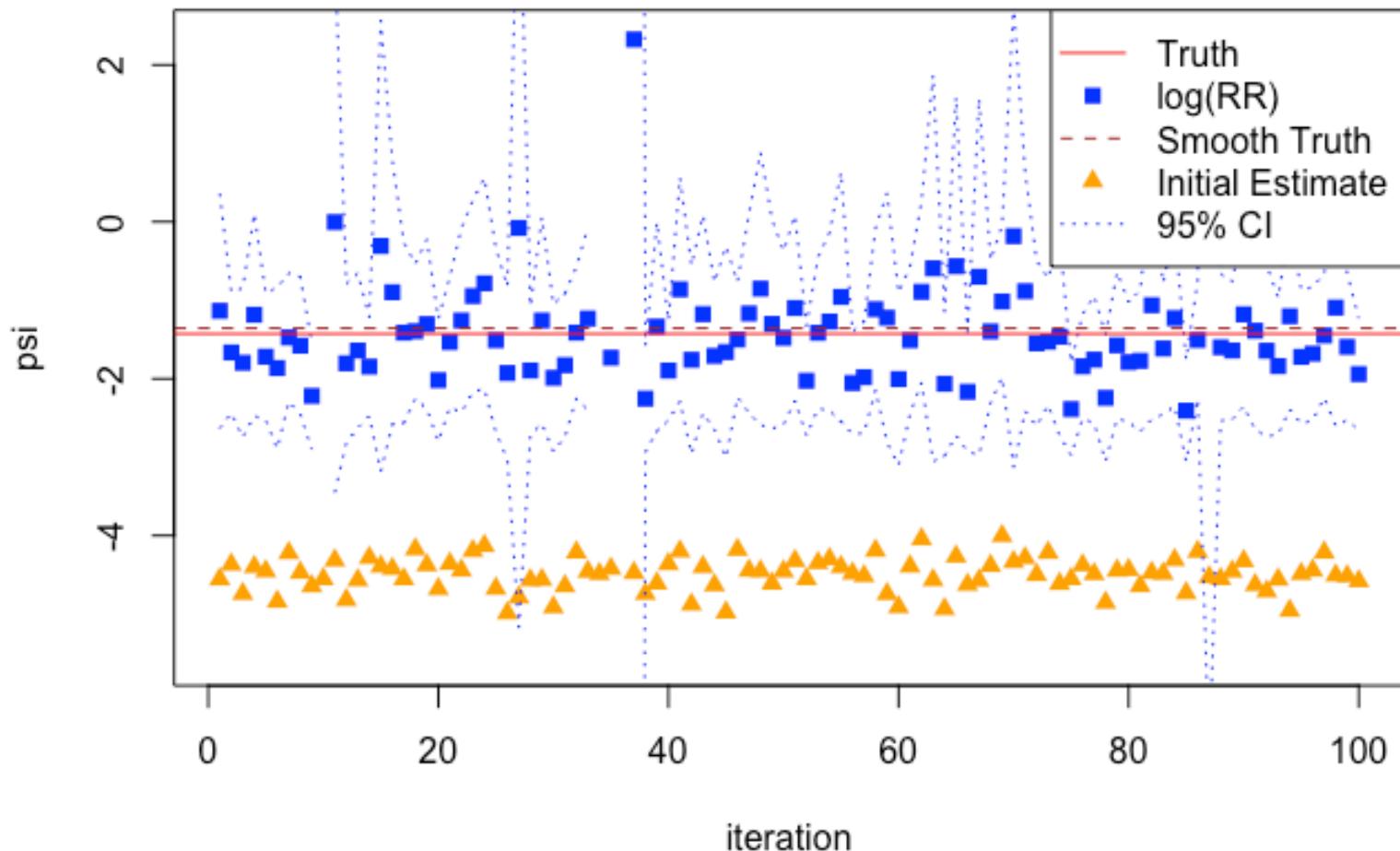
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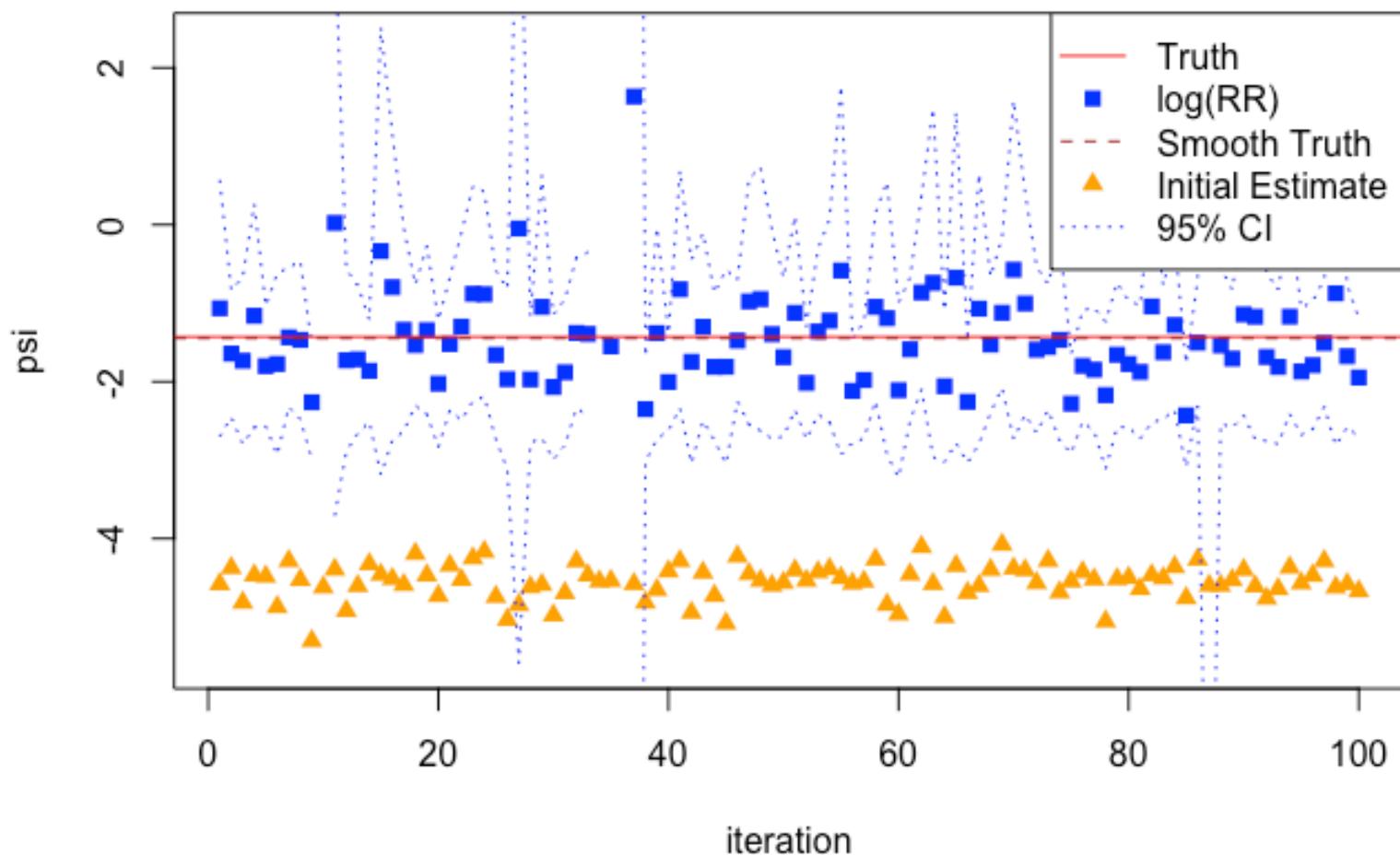
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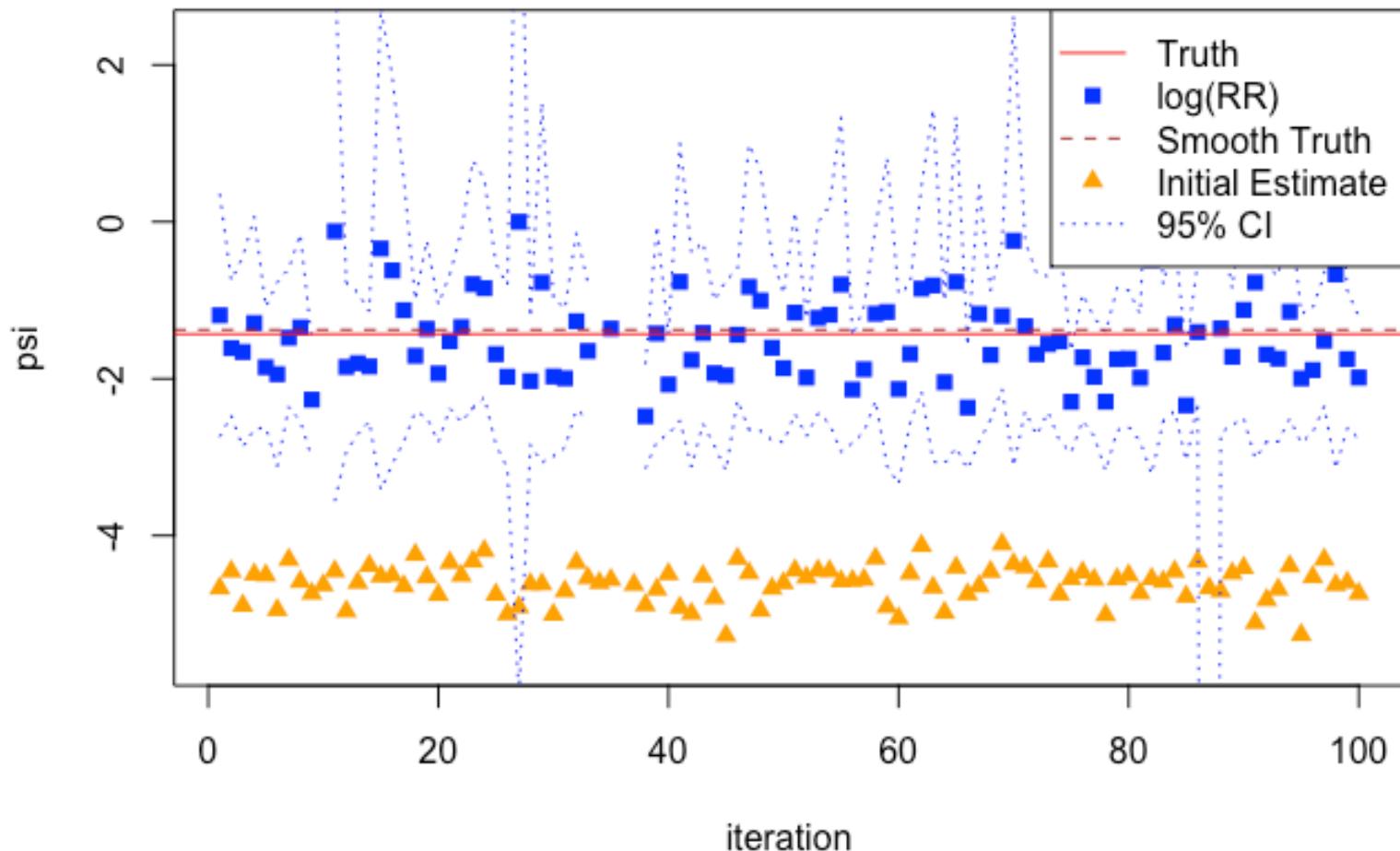
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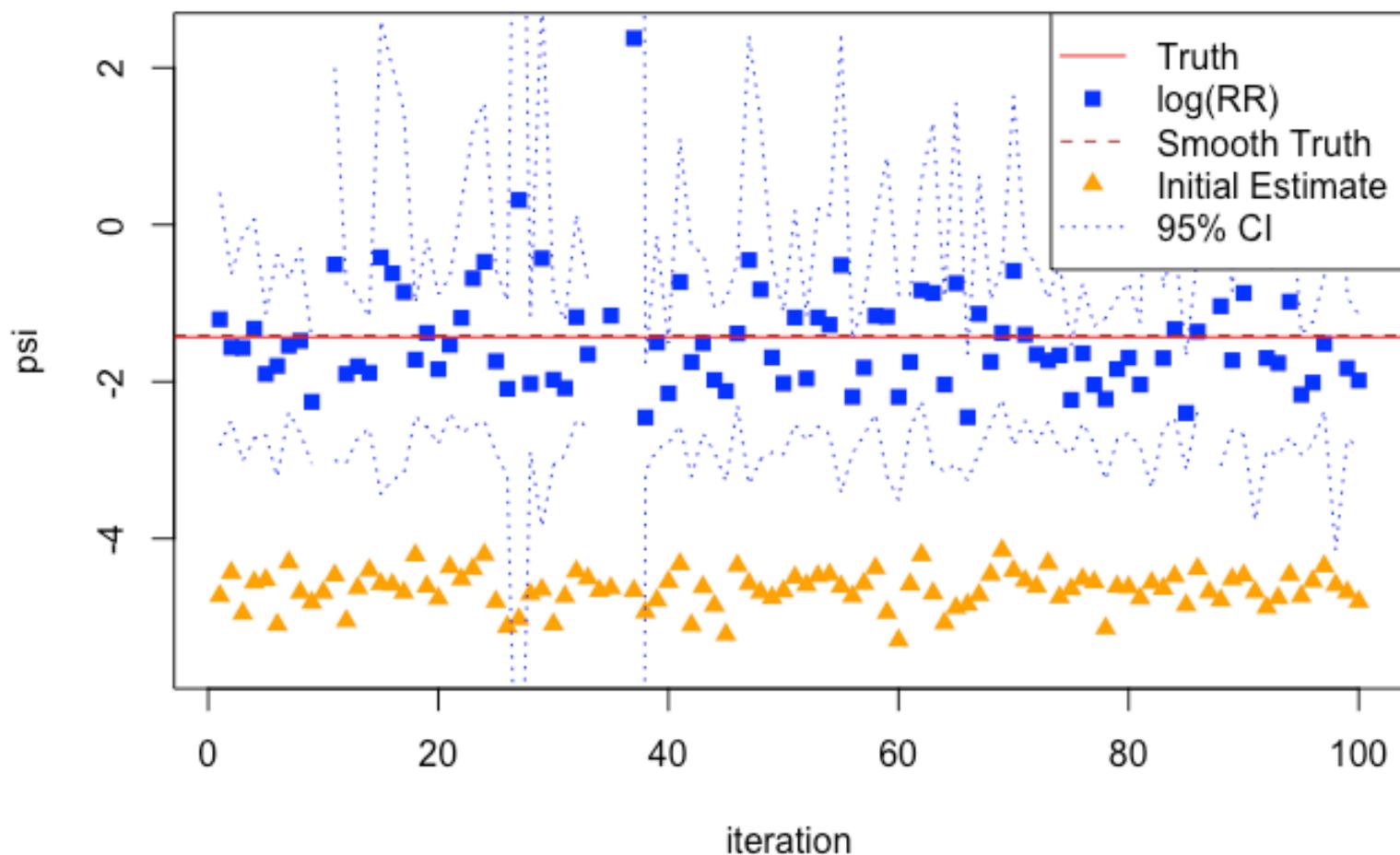
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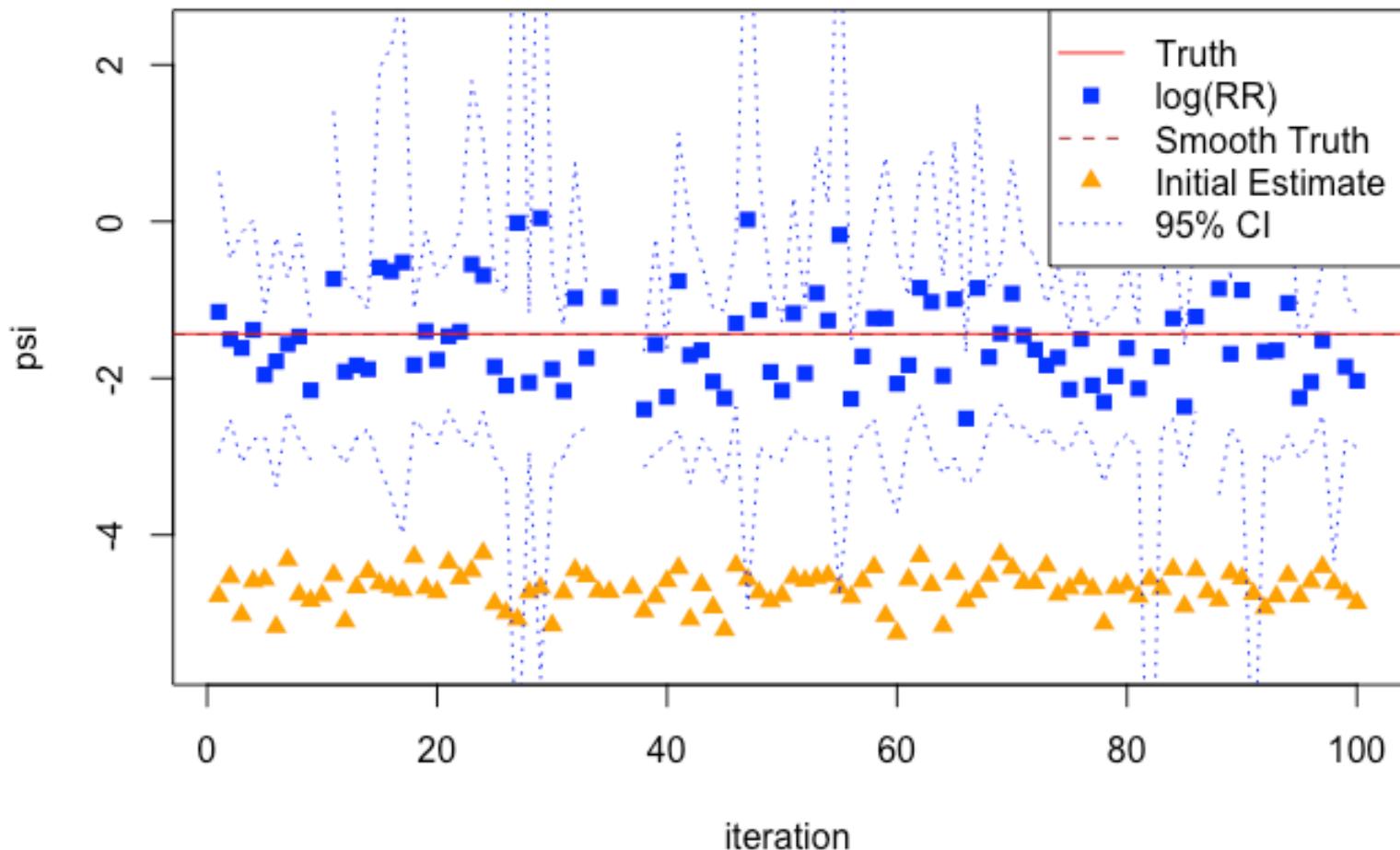
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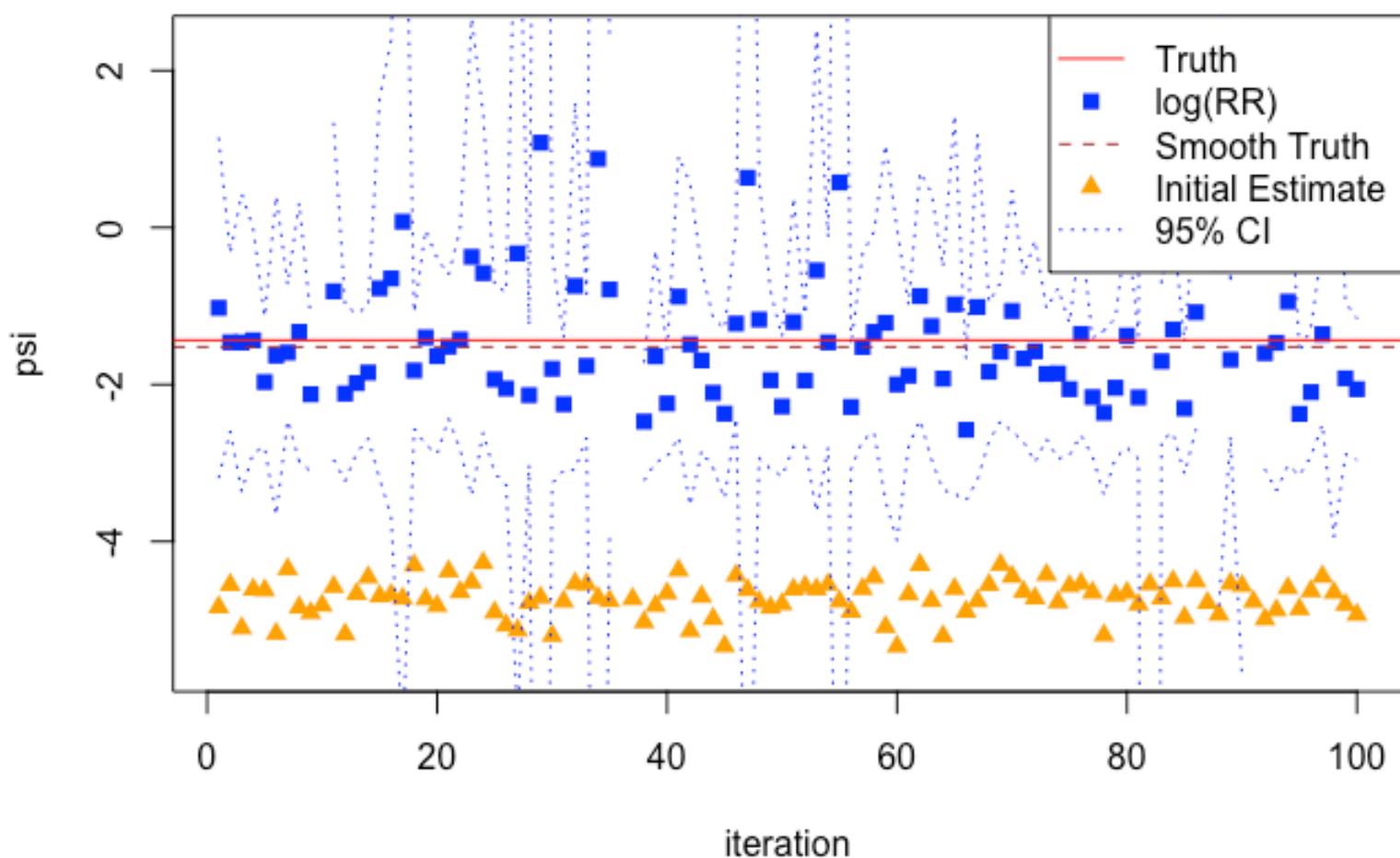
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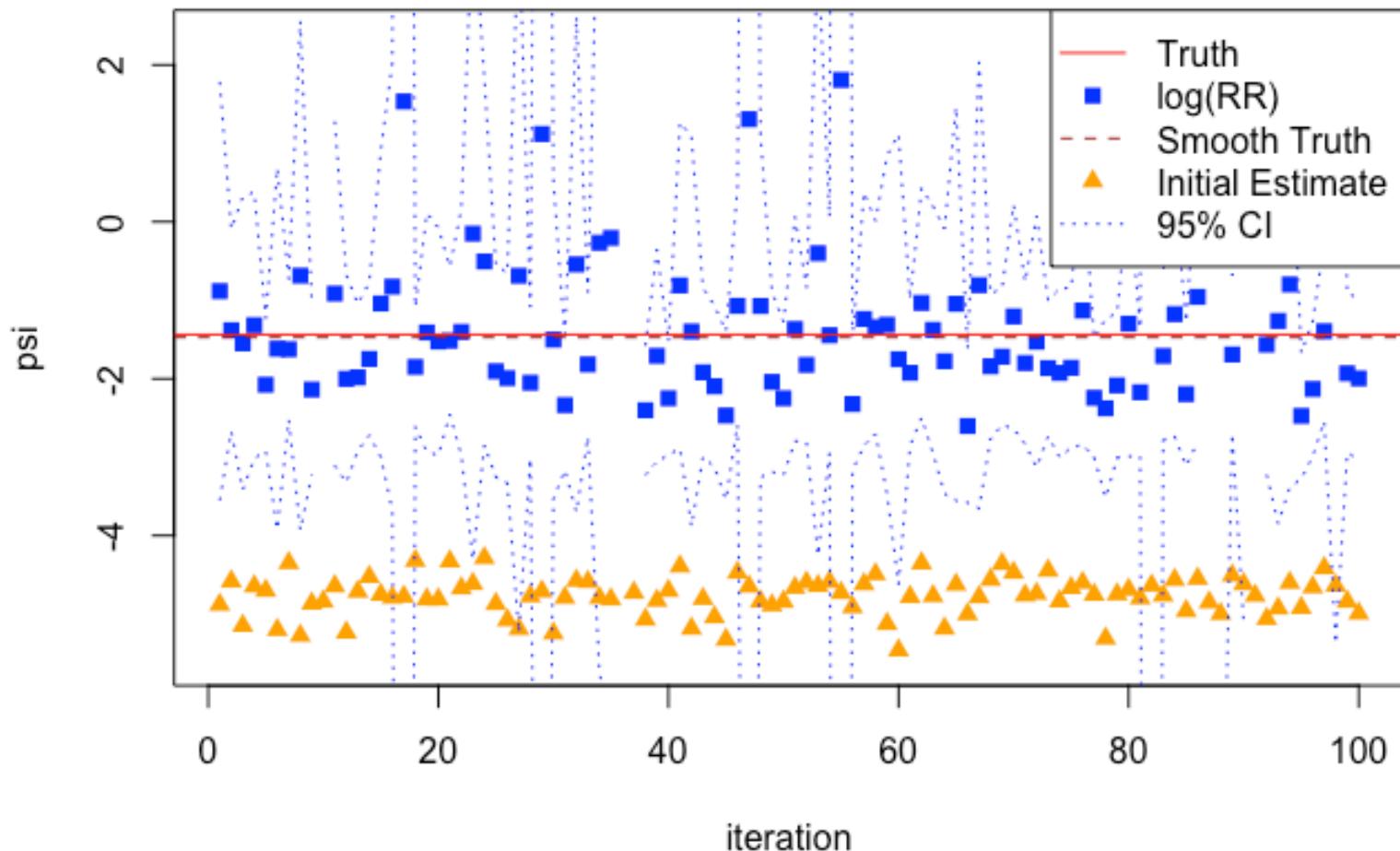
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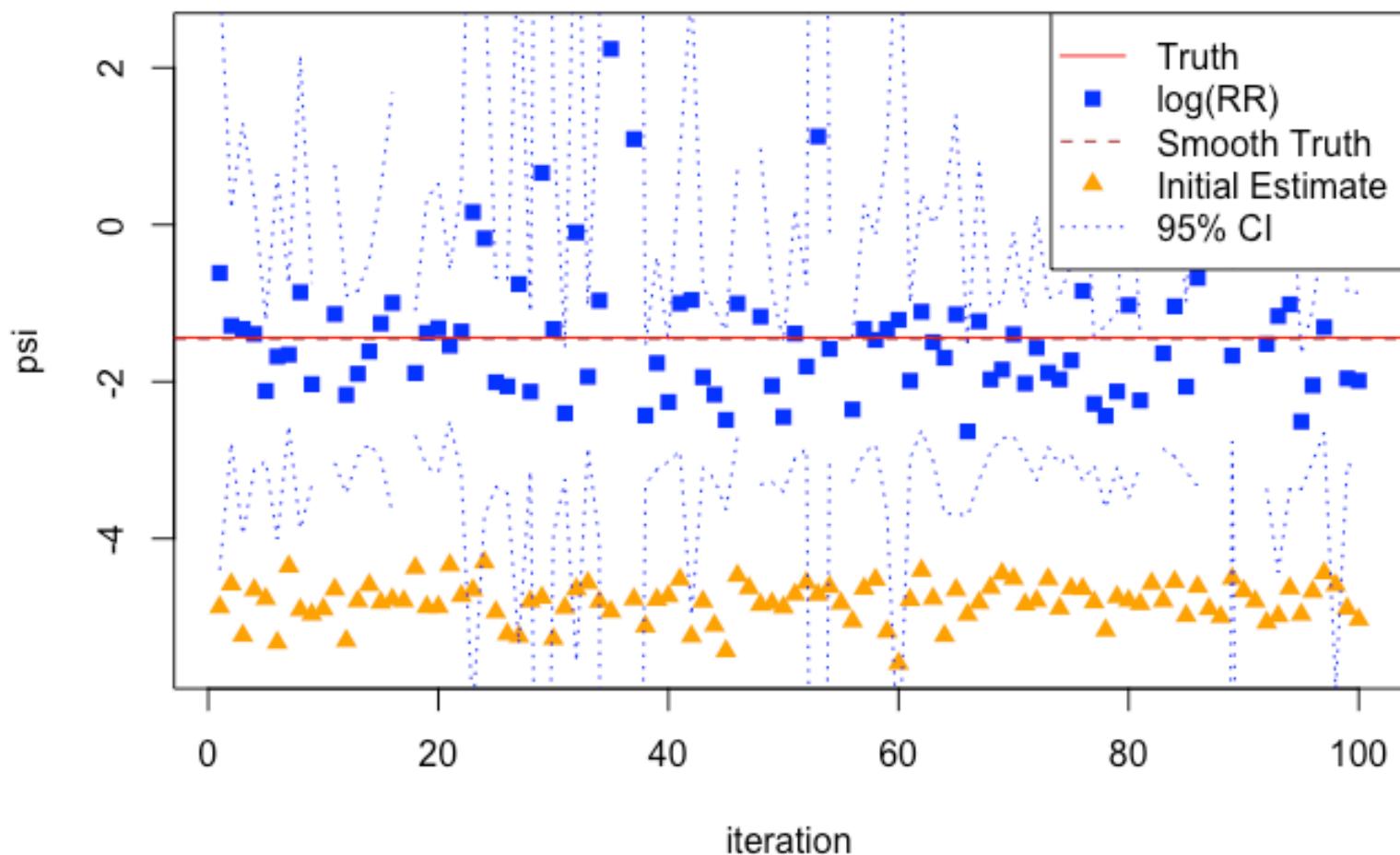
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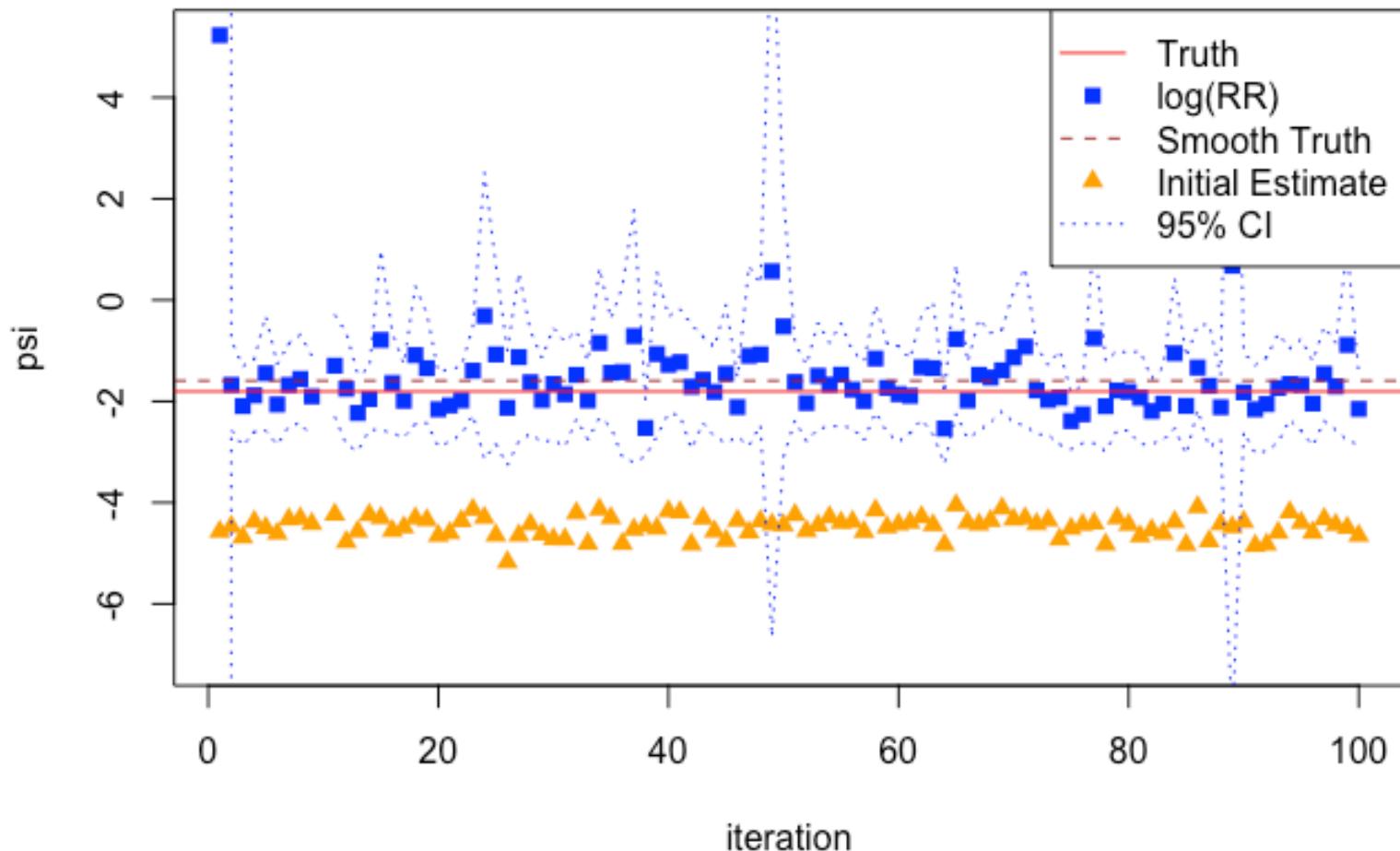
s1=0.9 Null case for cor(S1,W)=0.75, crossover rate=0.5, sample rate=1



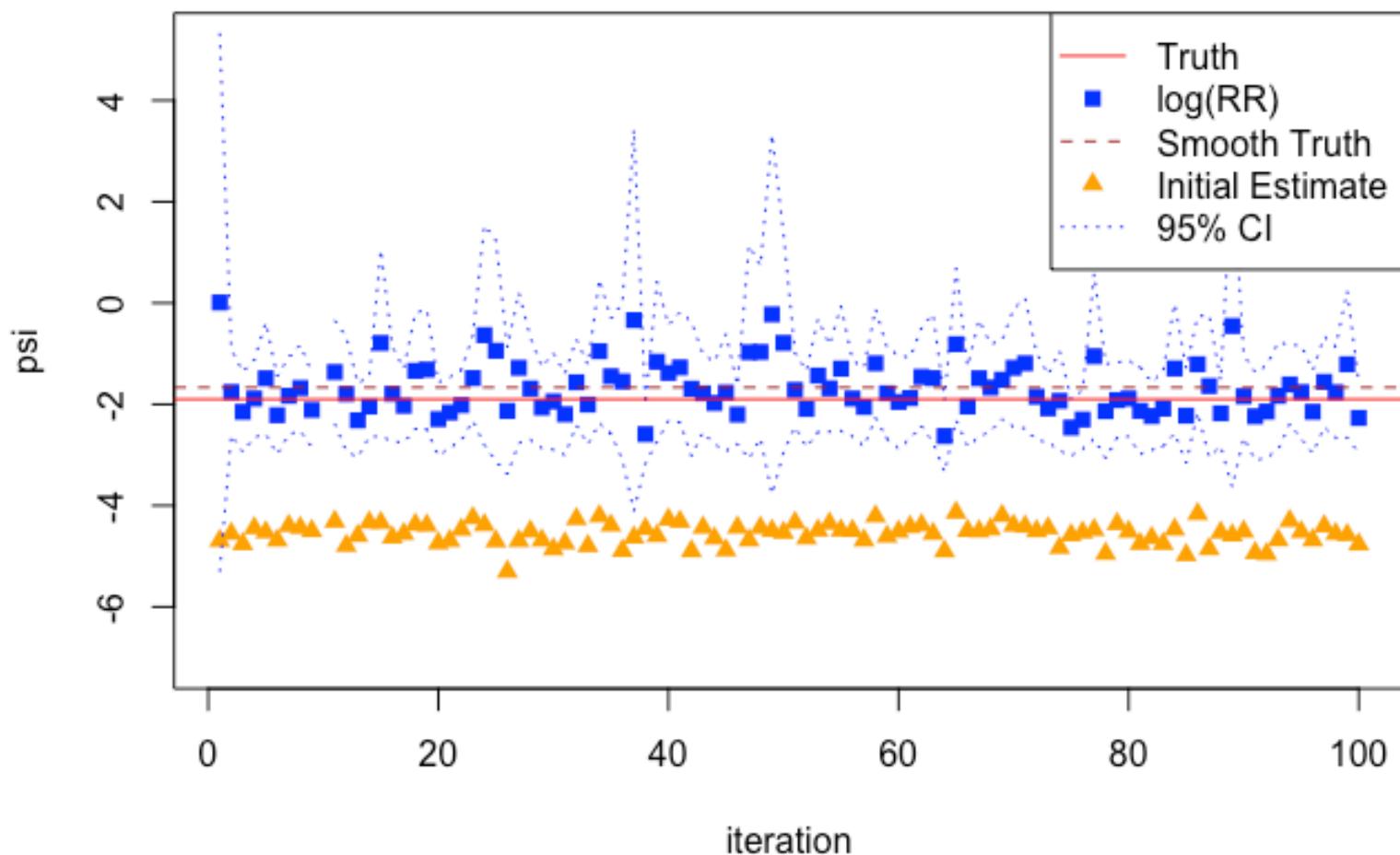
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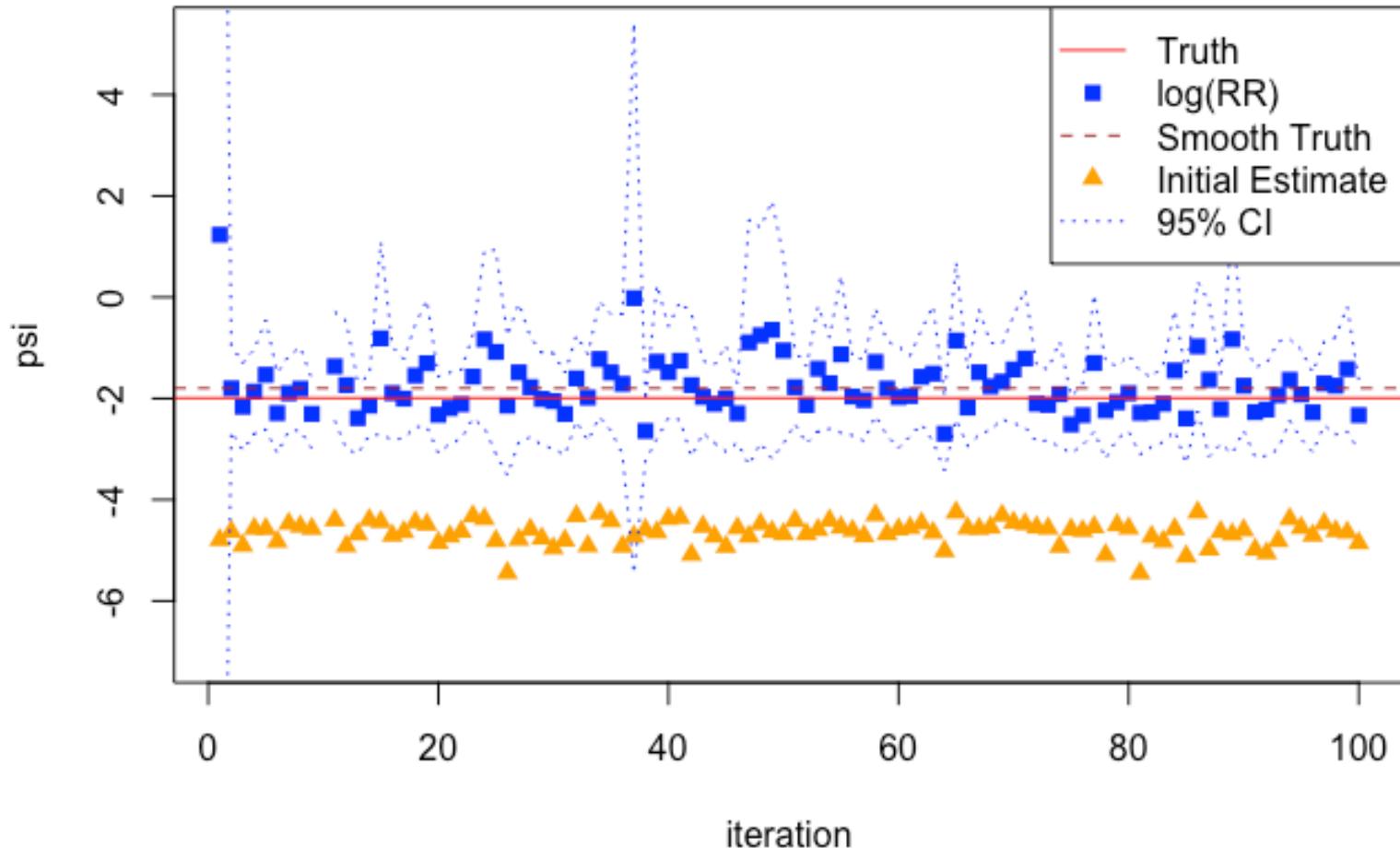
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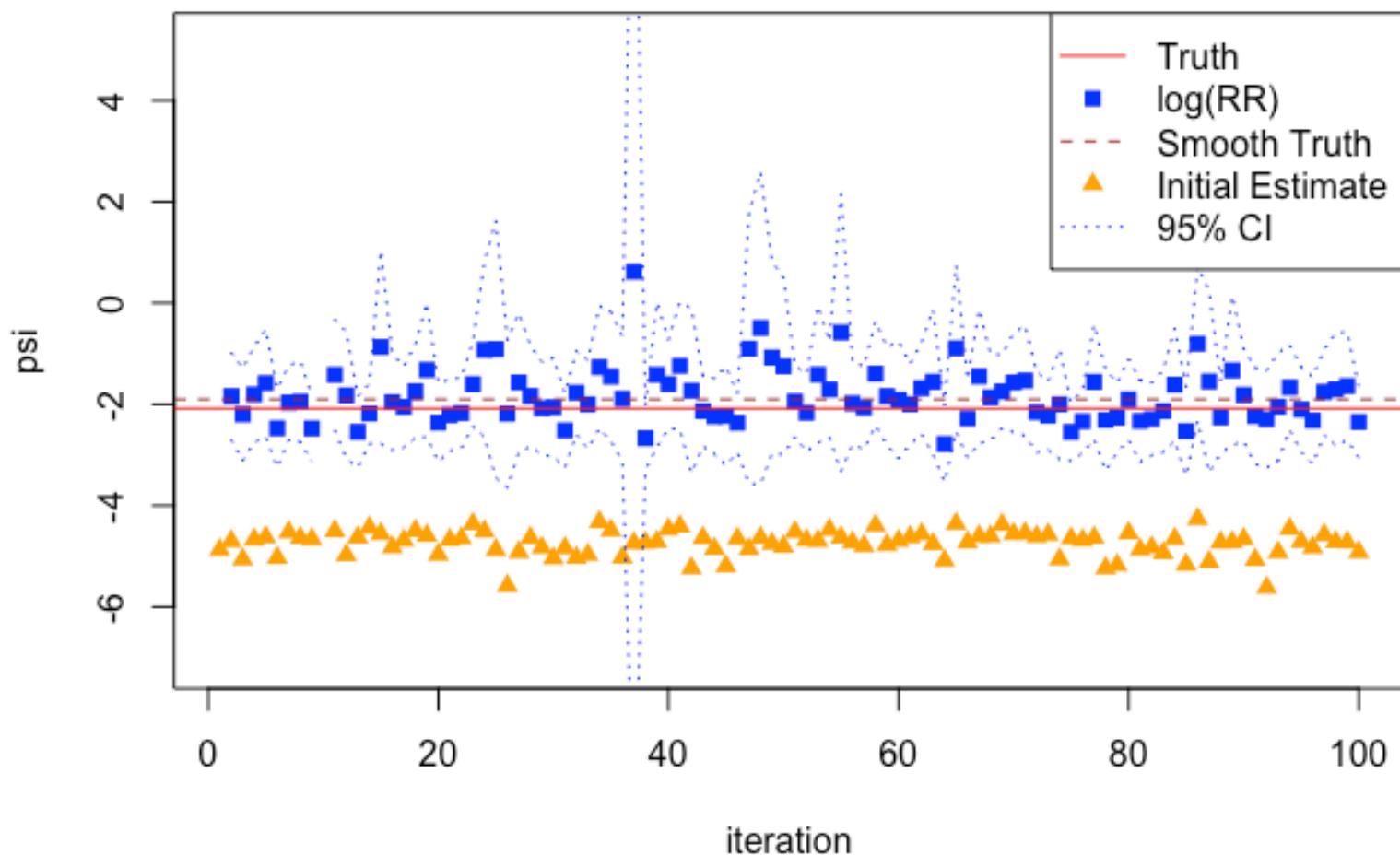
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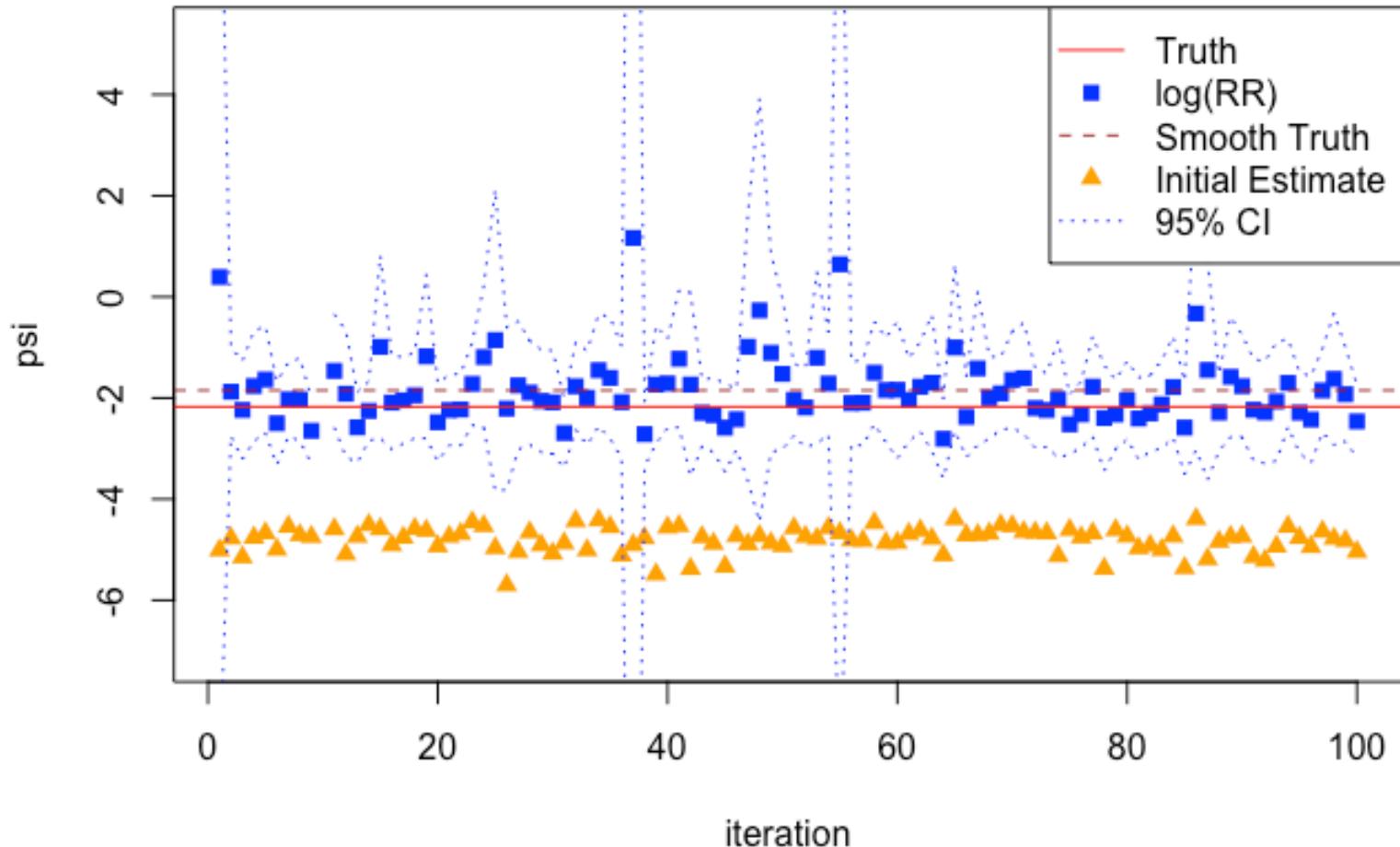
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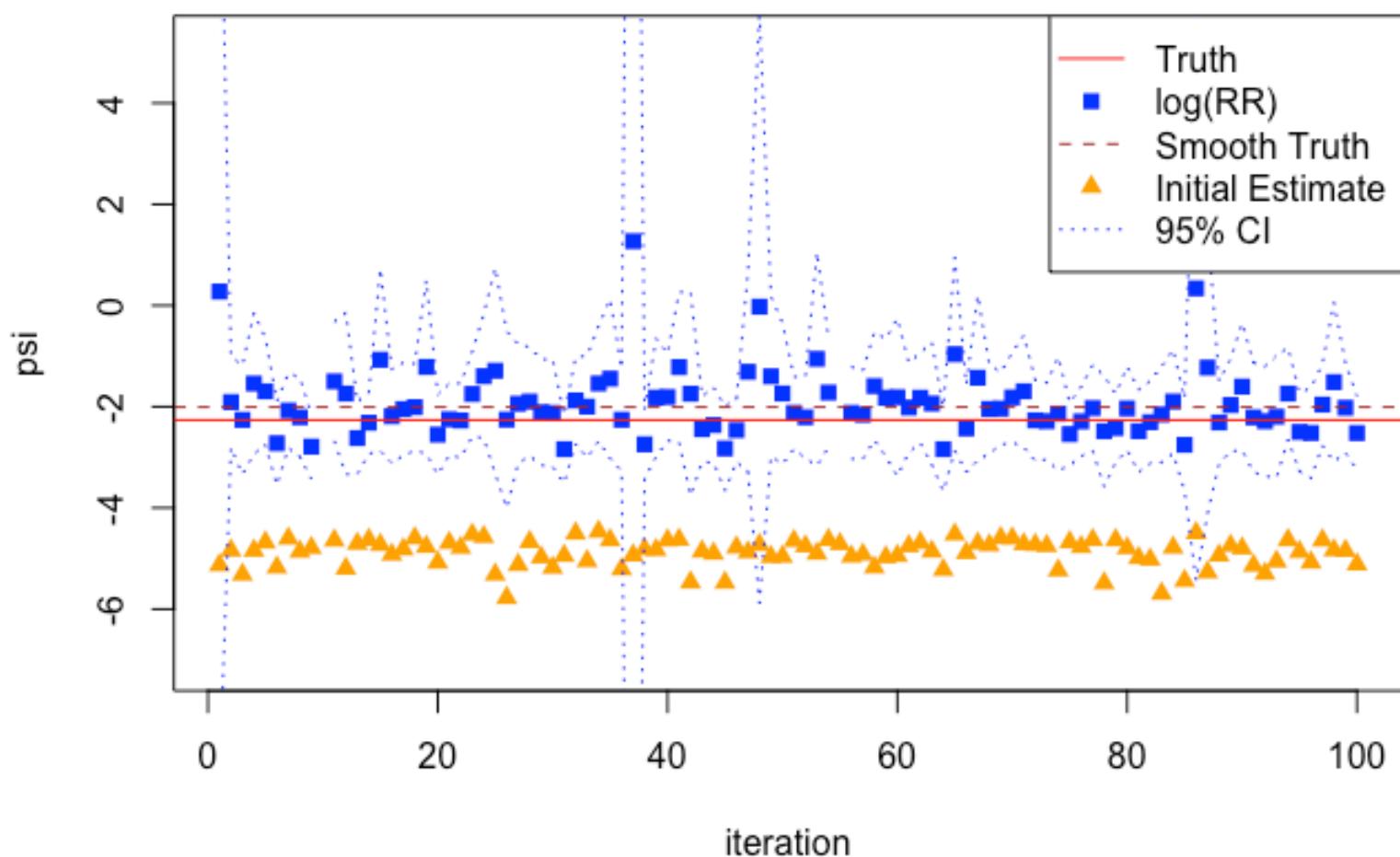
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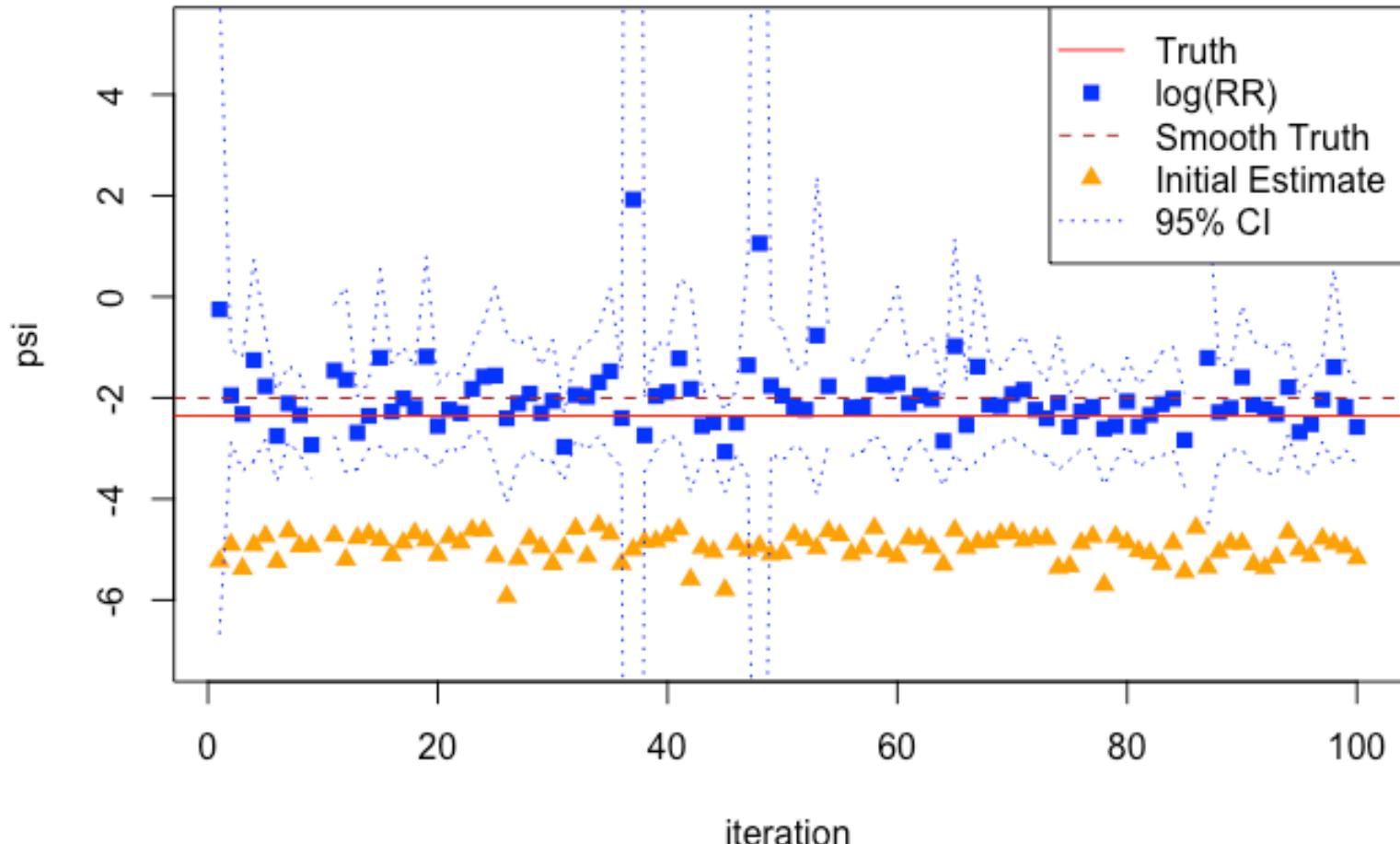
s1=0.4 Alternative case for cor(S1,W)=0.75, crossover rate=0.5, sample rate=1



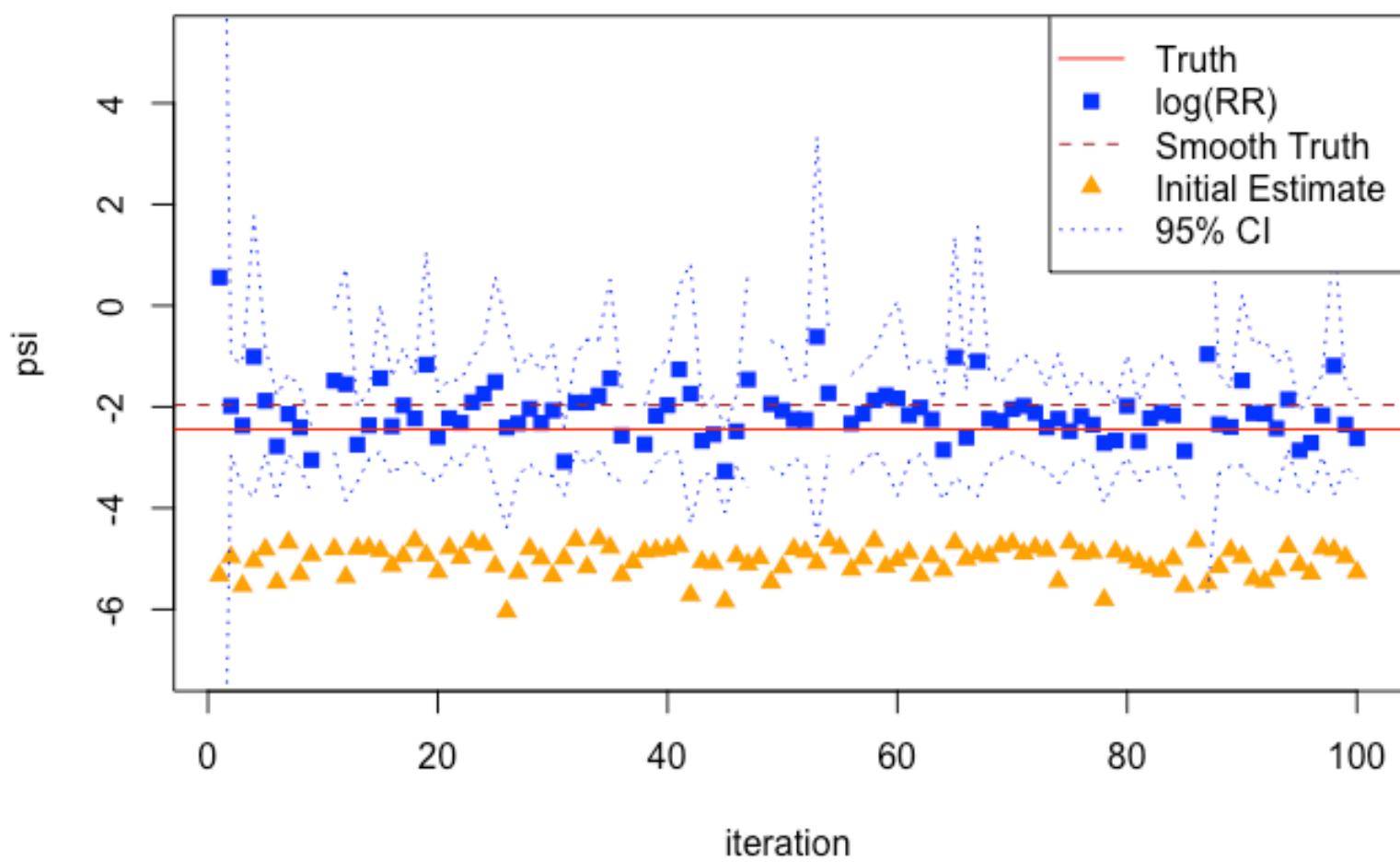
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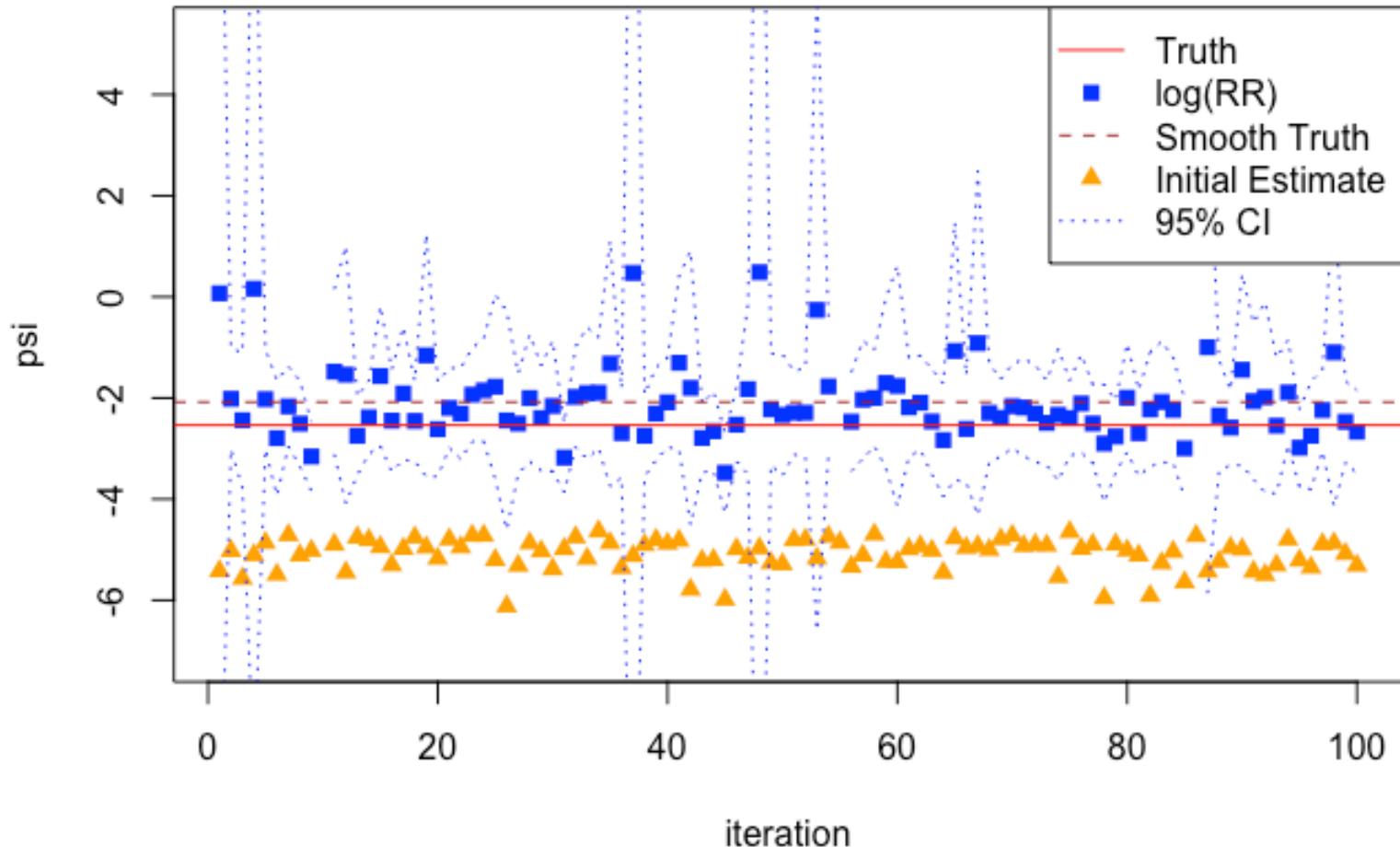
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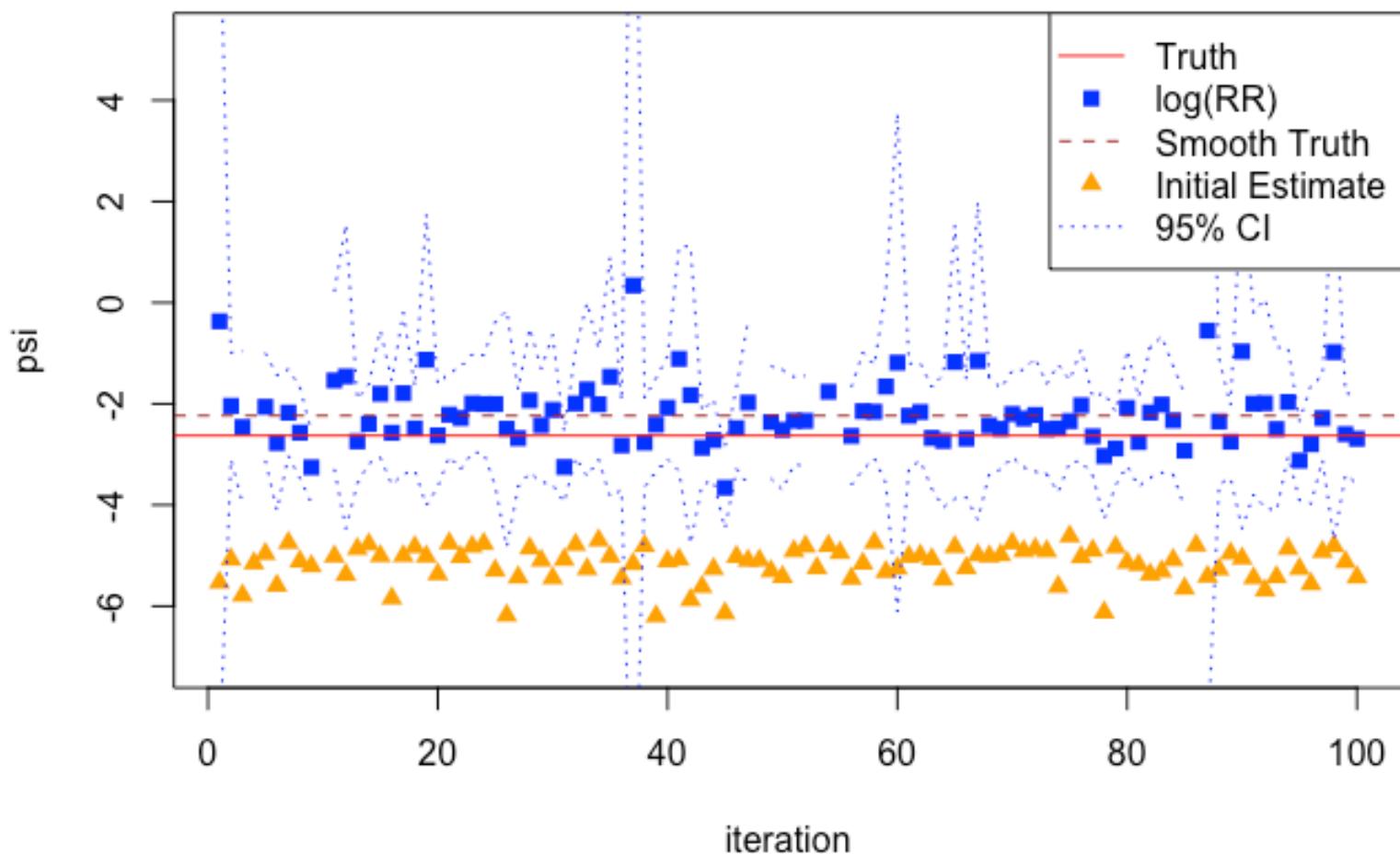
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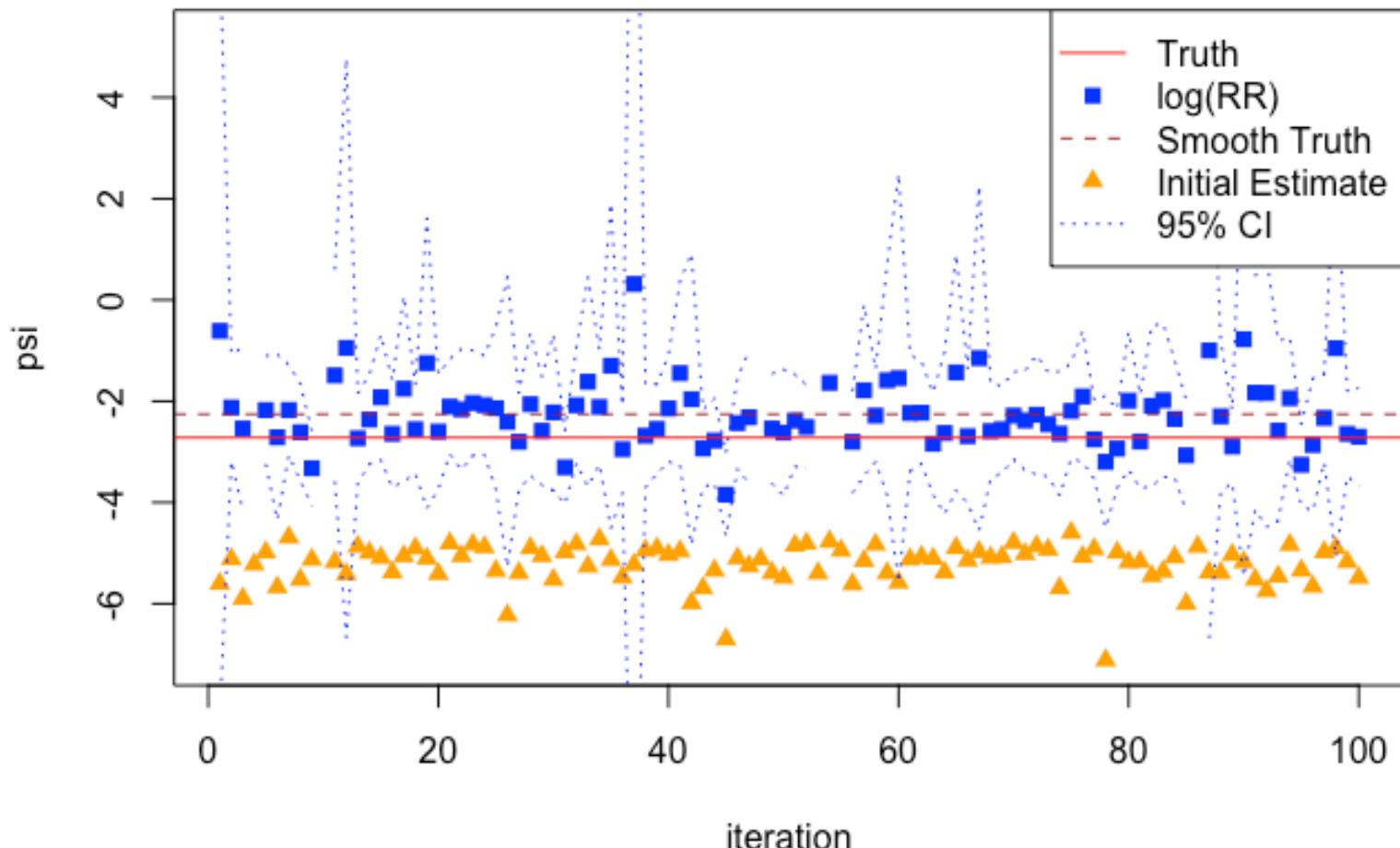
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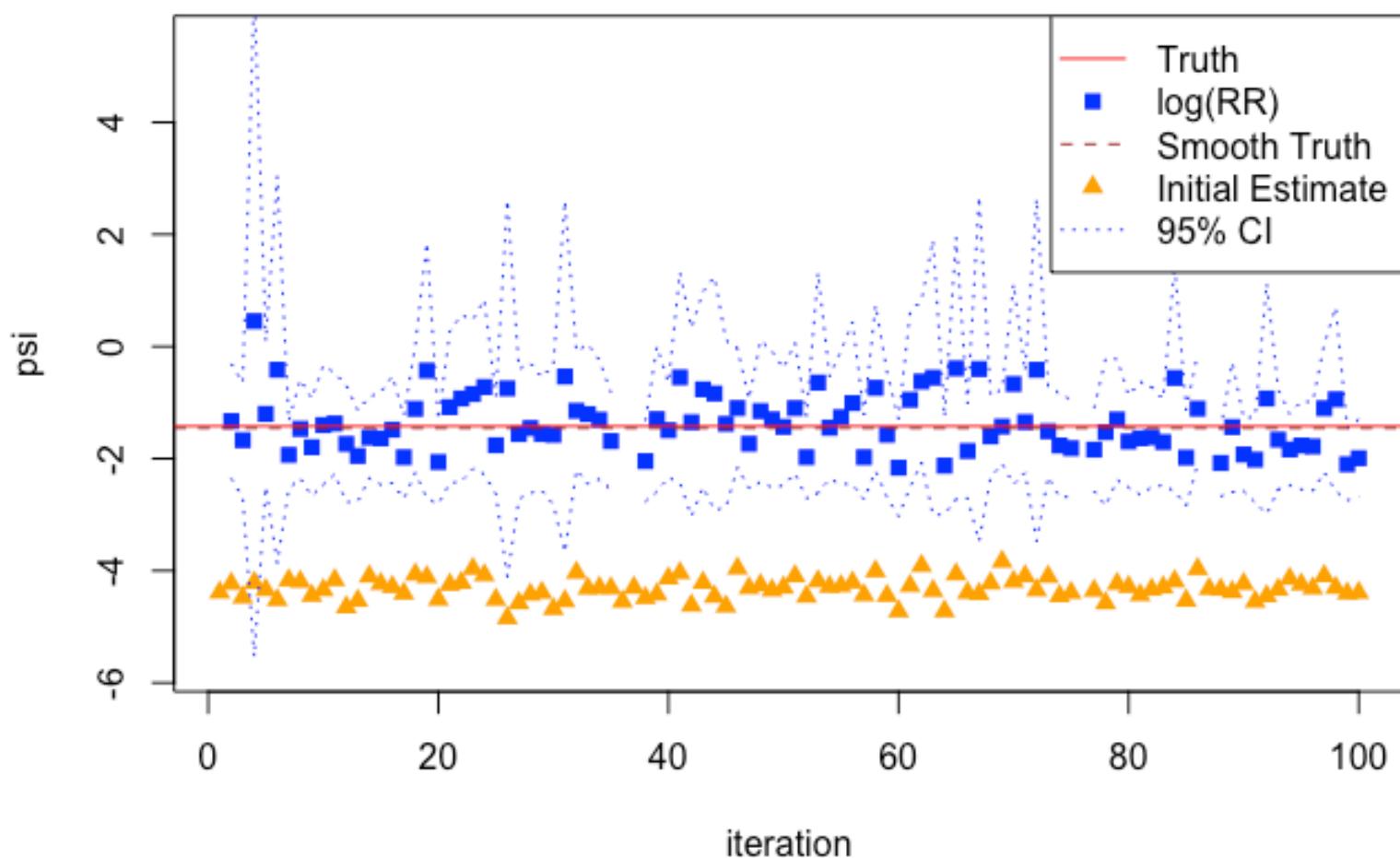
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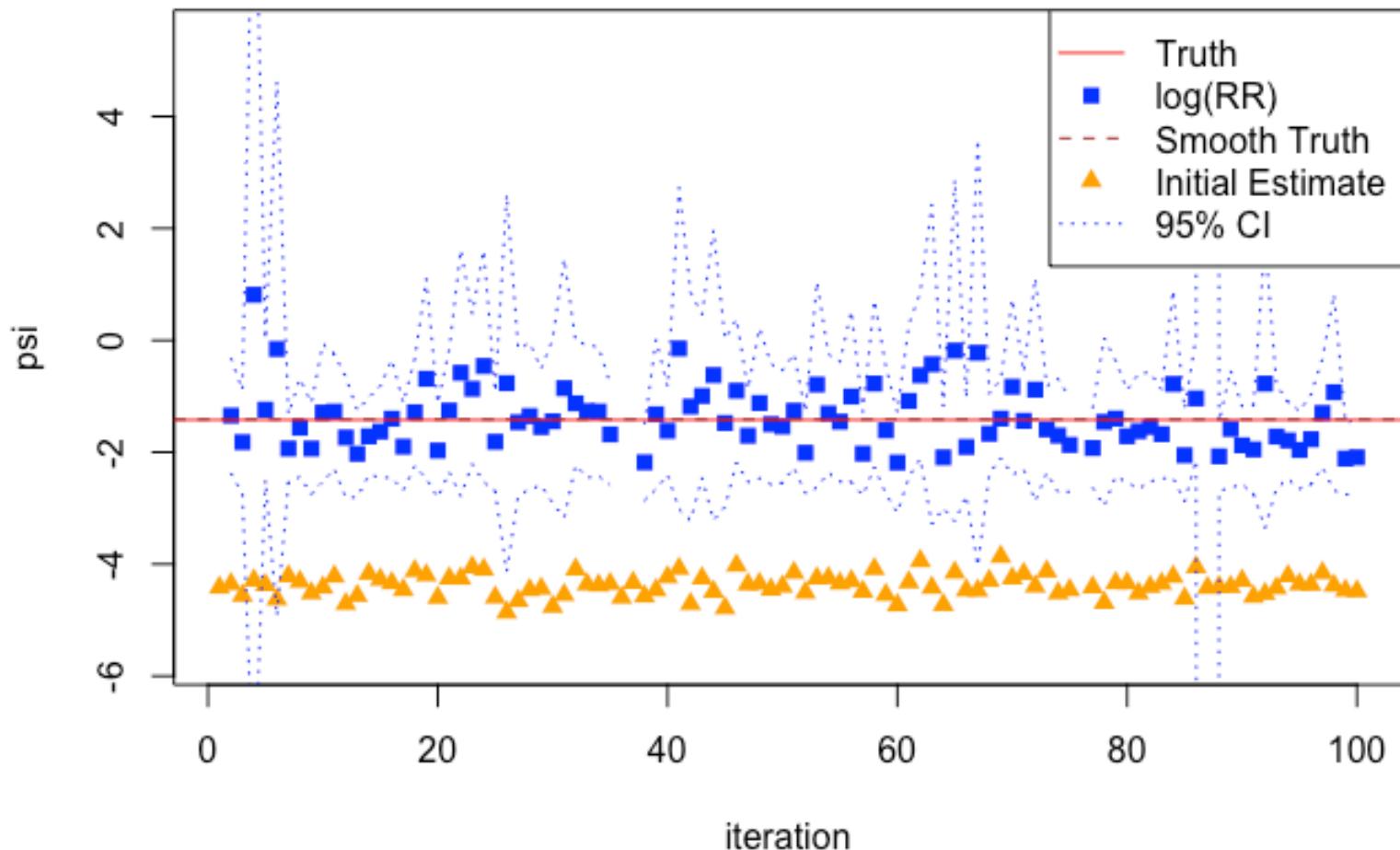
s1=1 Alternative case for $\text{cor}(S1, W) = 0.75$, crossover rate=0.5, sample rate=1



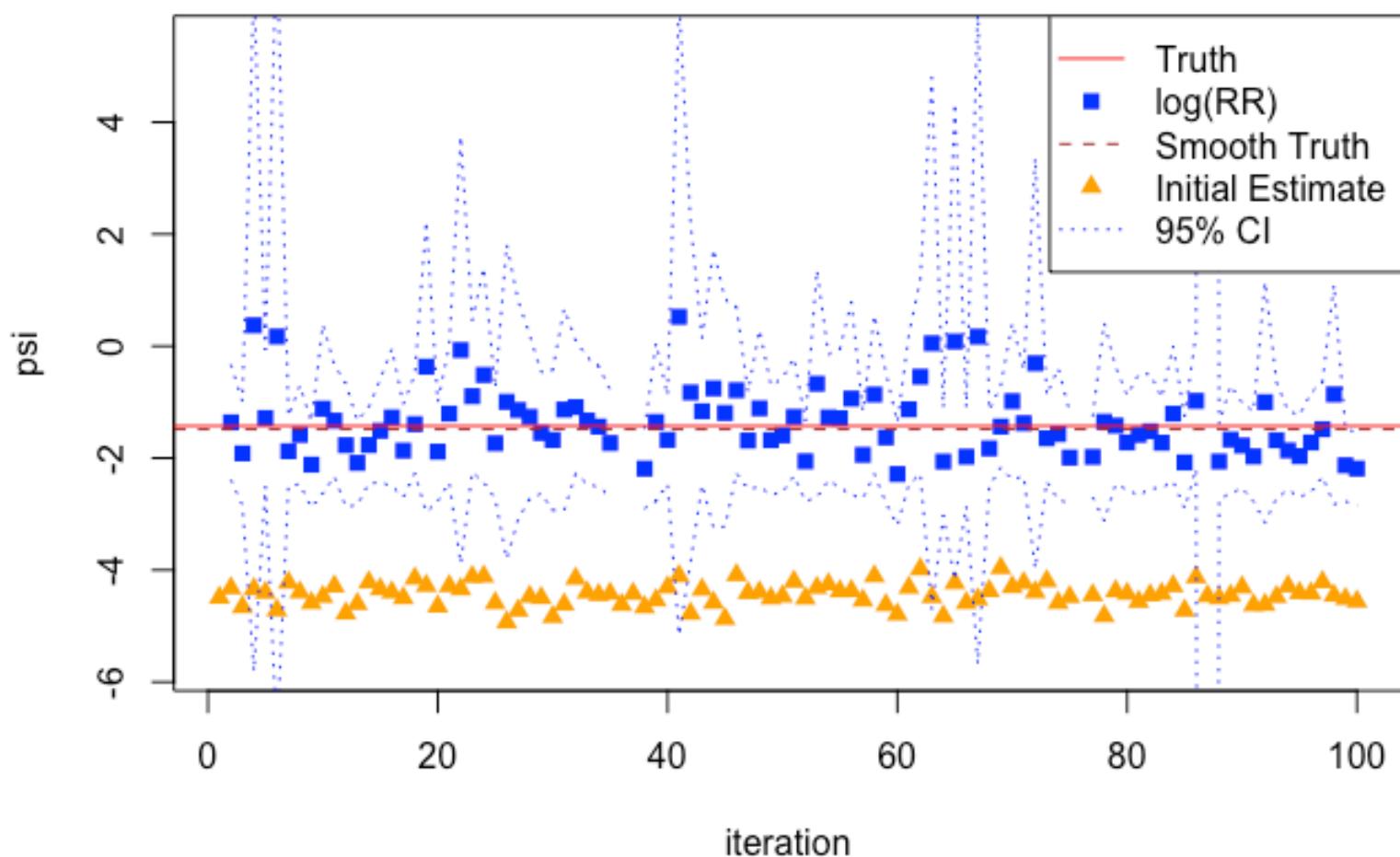
s1=0 Null case for $\text{cor}(S1, W) = 0.75$, crossover rate=1, sample rate=0.25



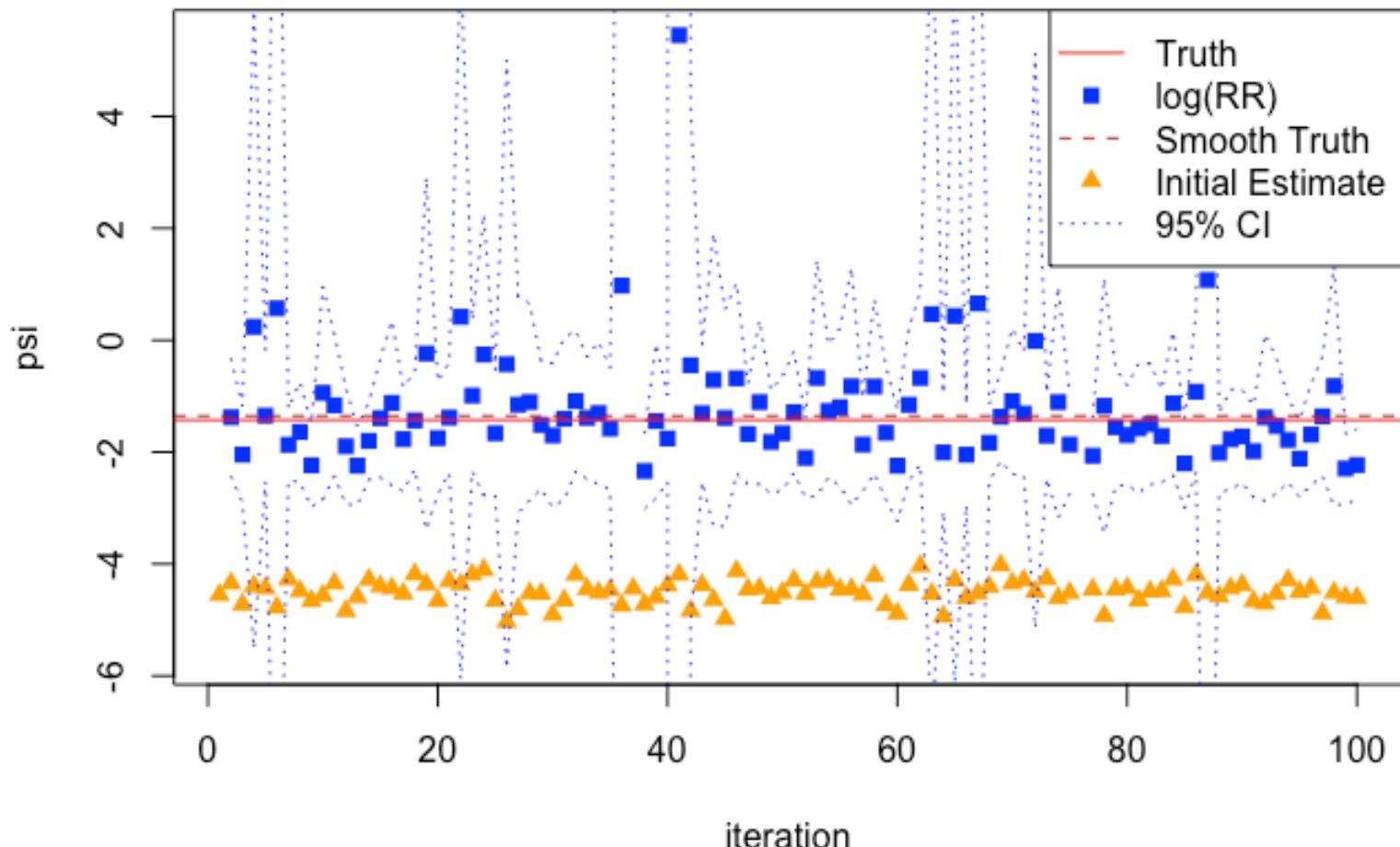
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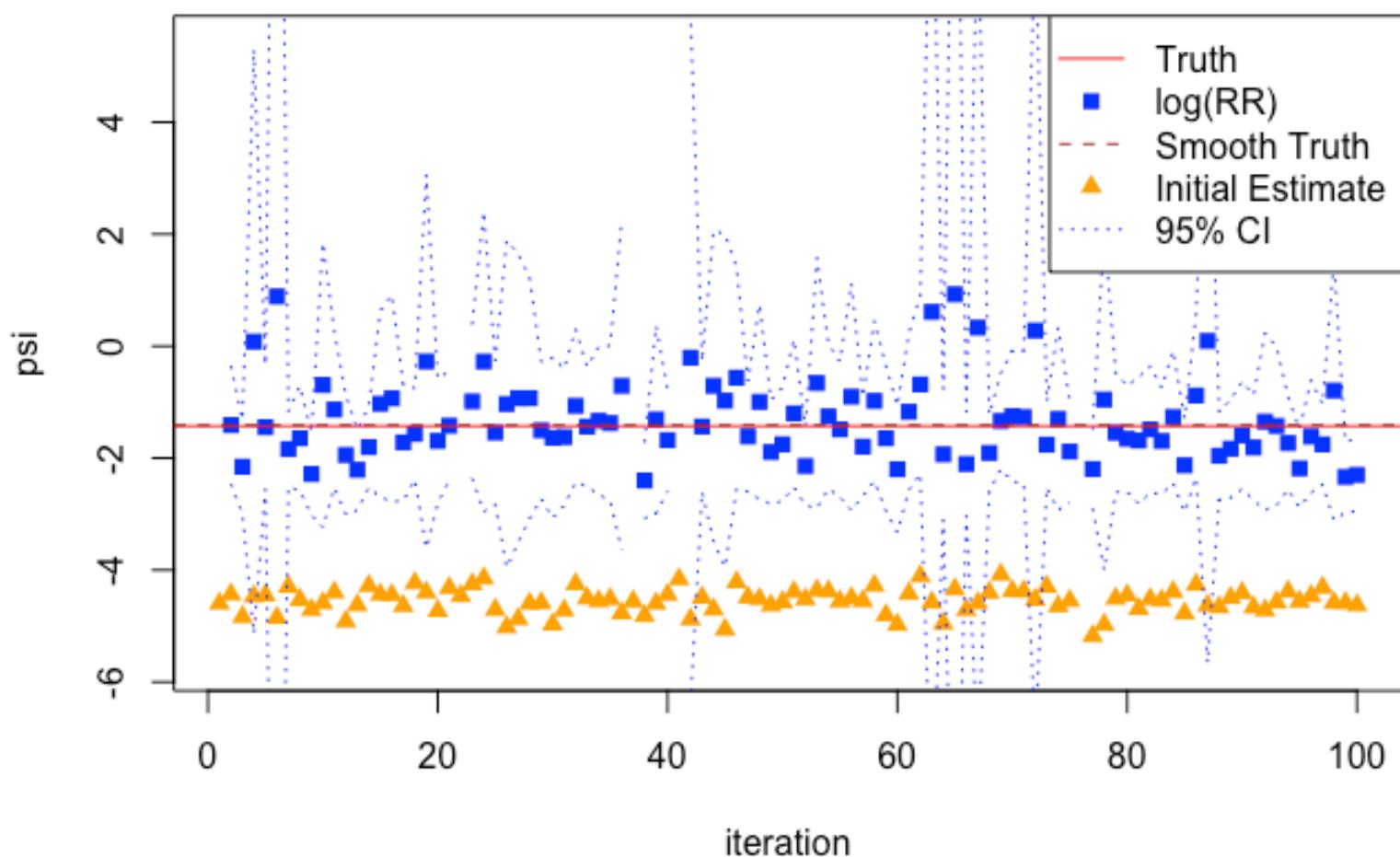
s1=0.2 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=0.25



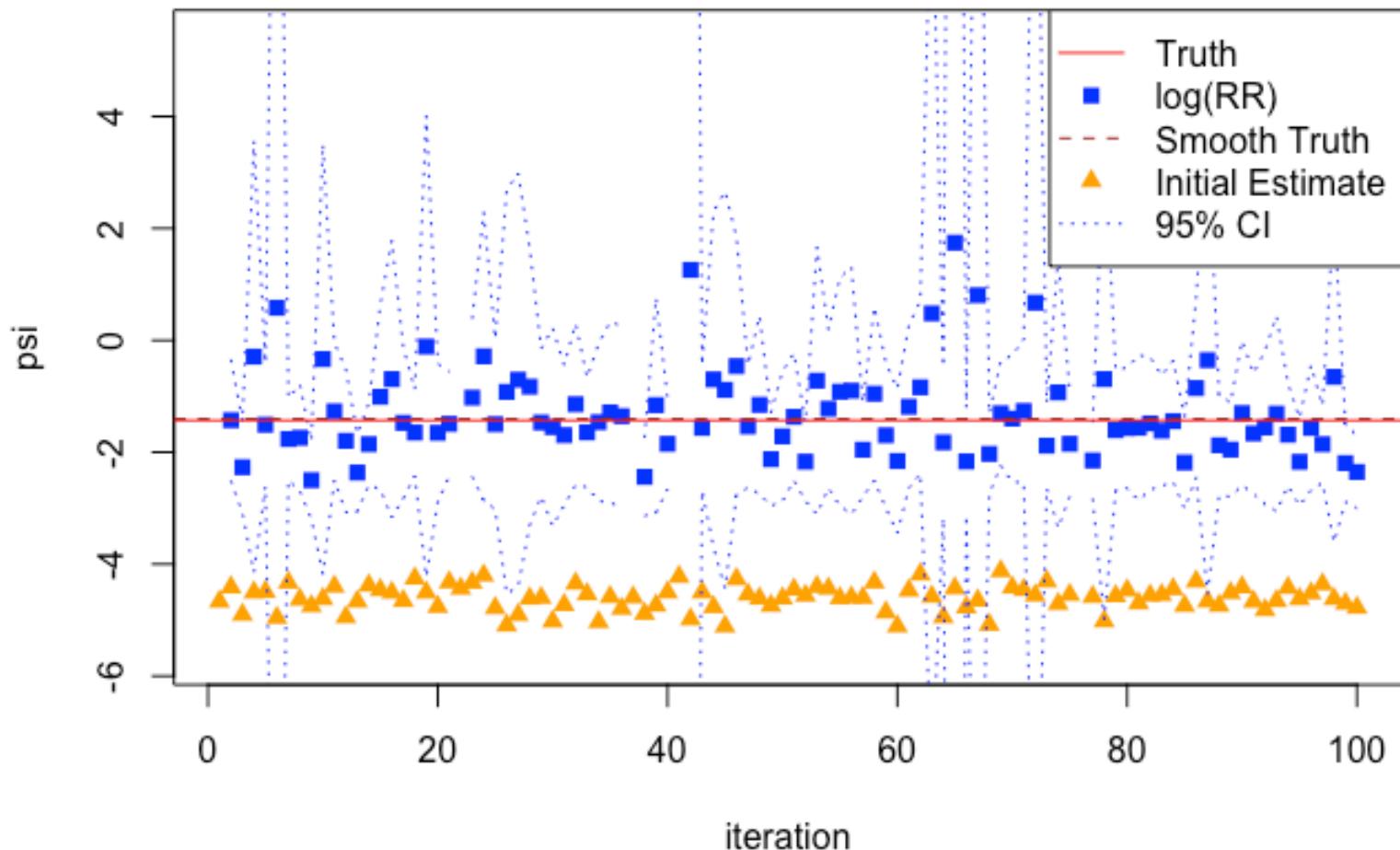
s1=0.3 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=0.25



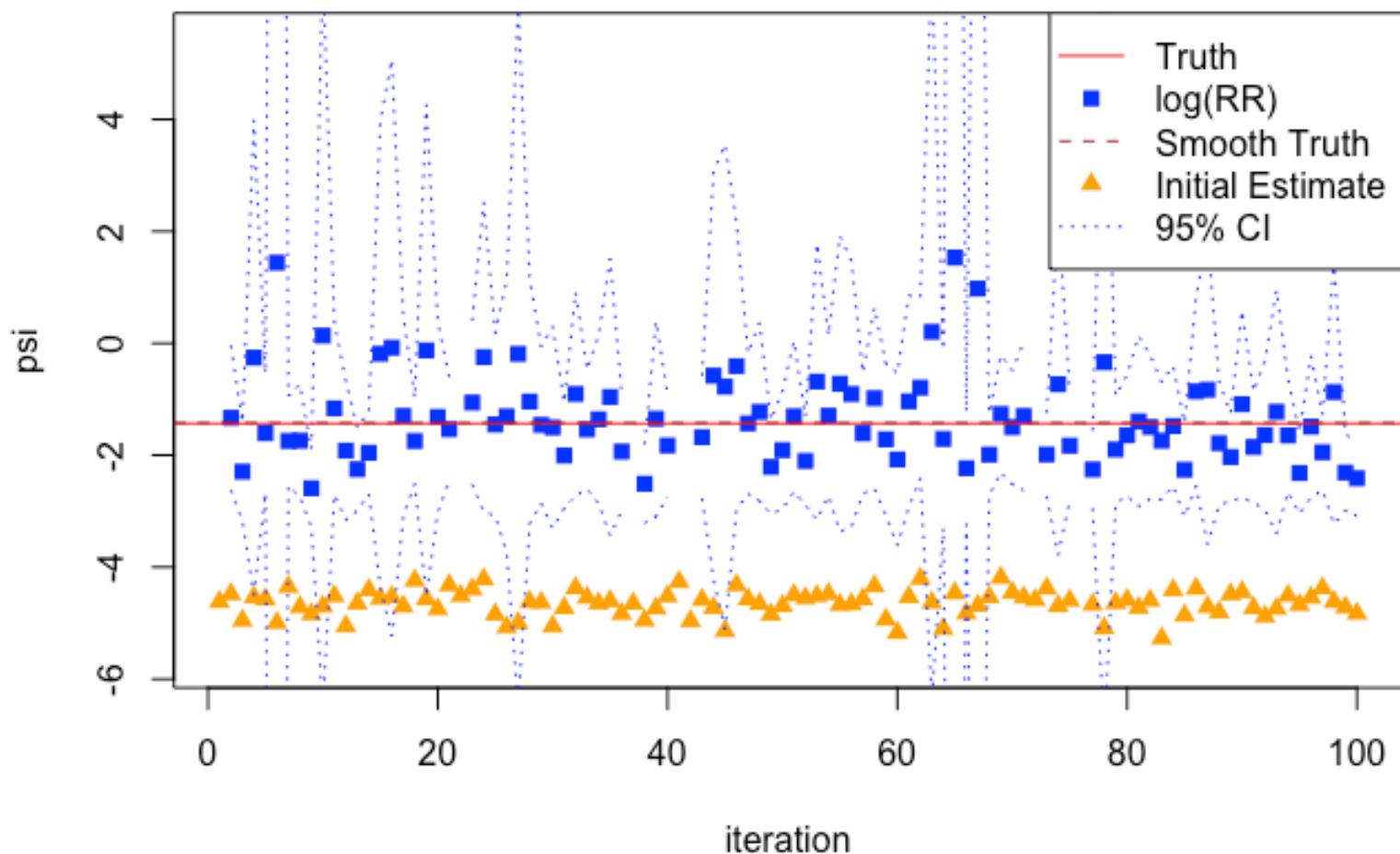
s1=0.4 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=0.25



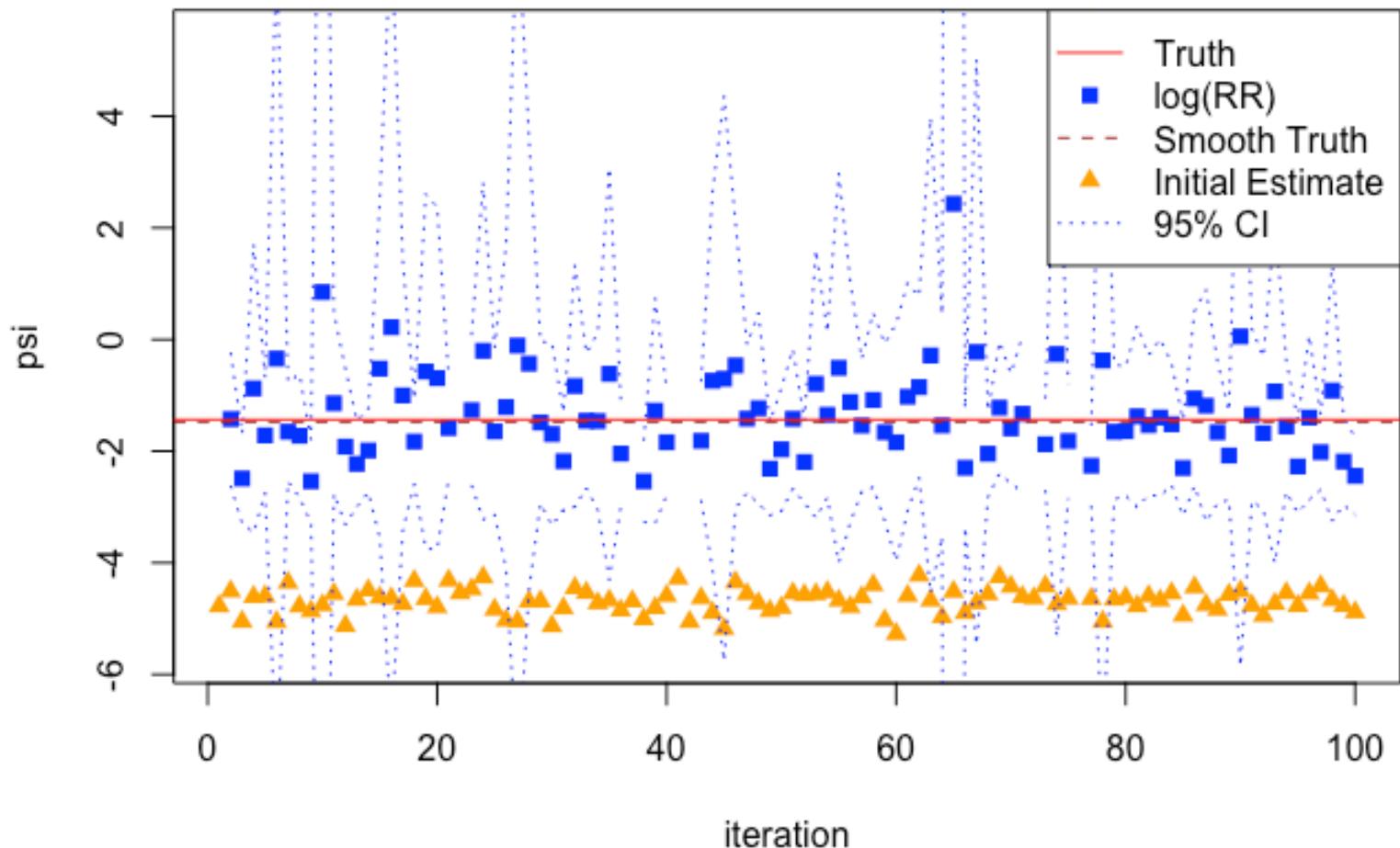
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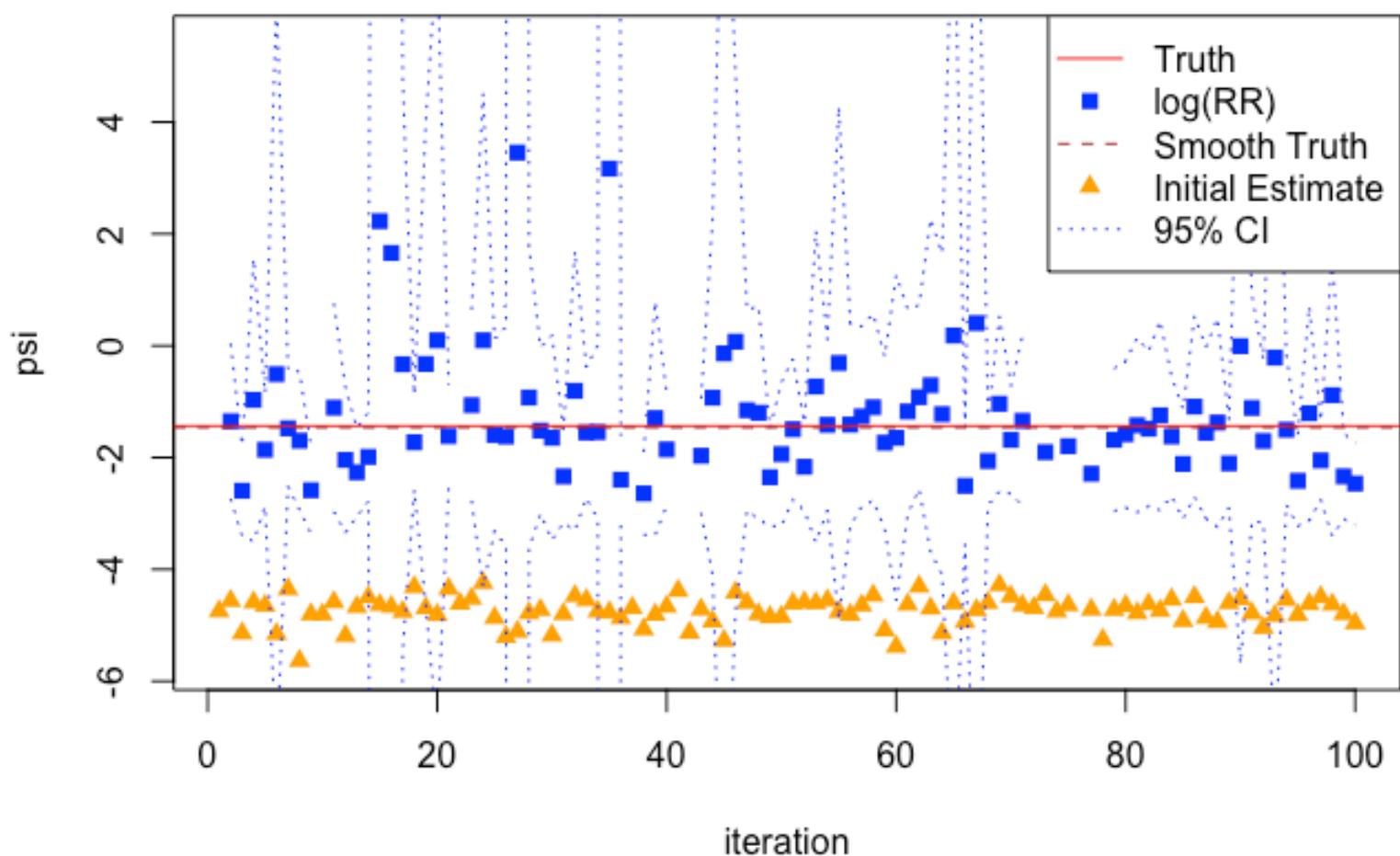
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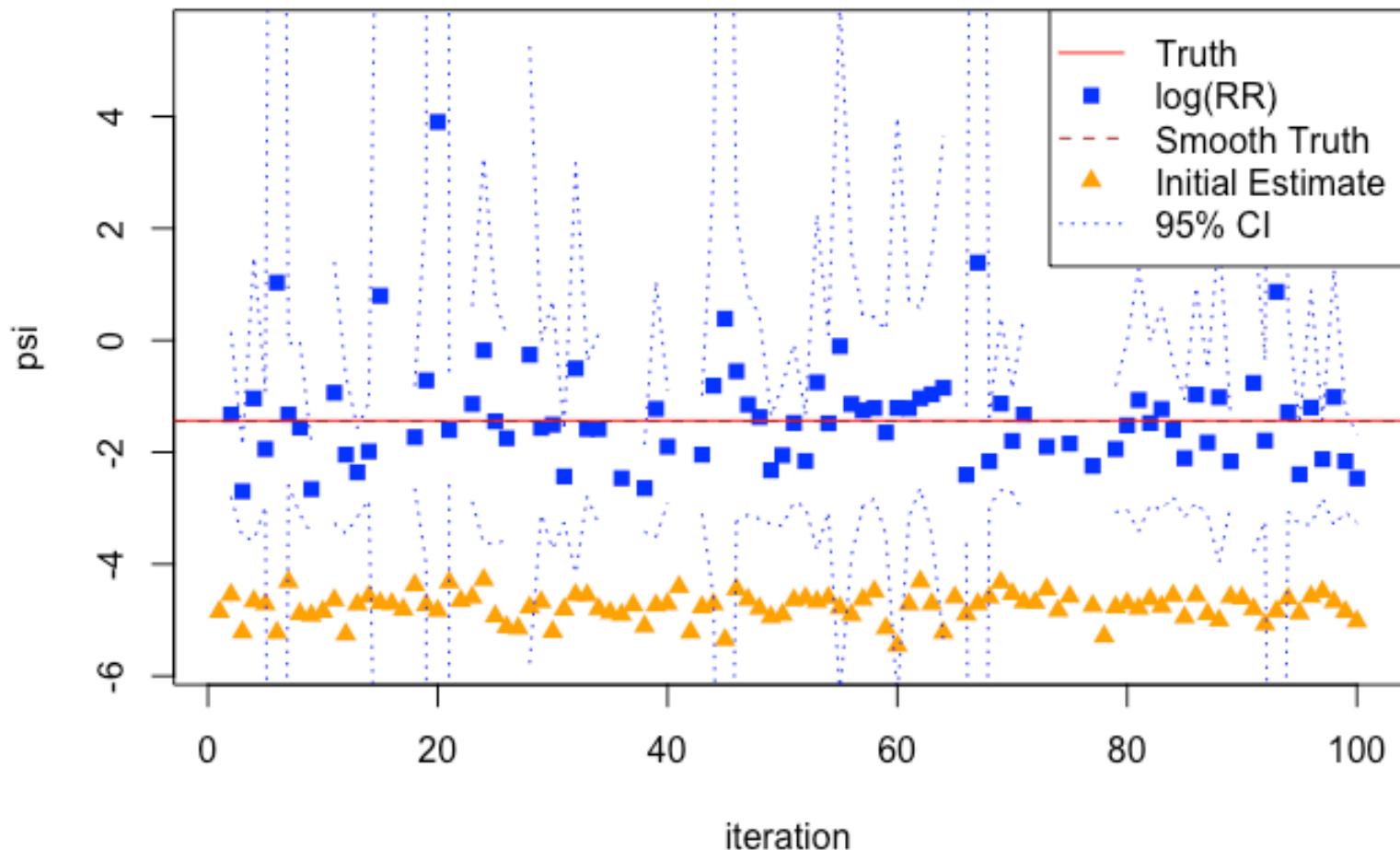
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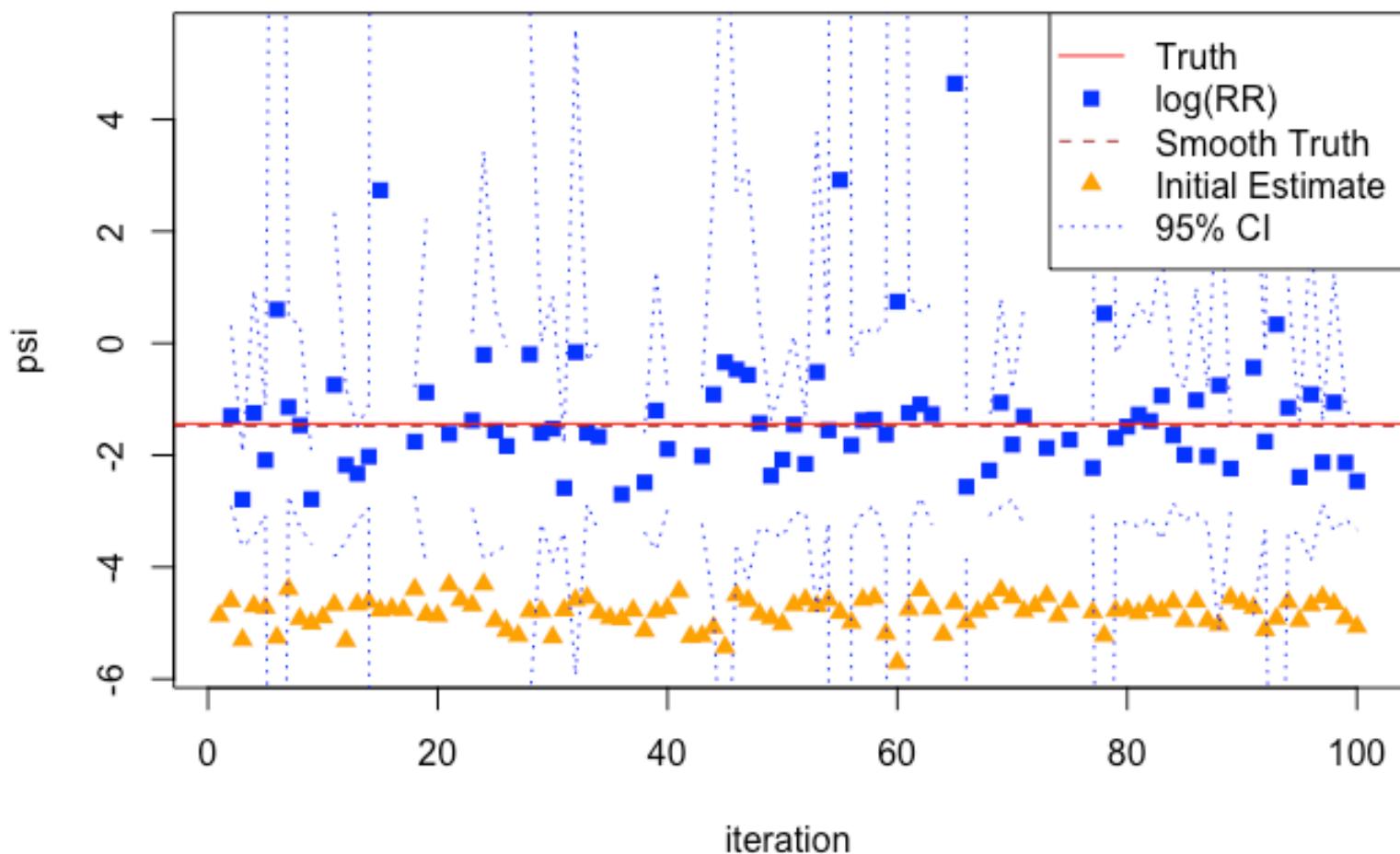
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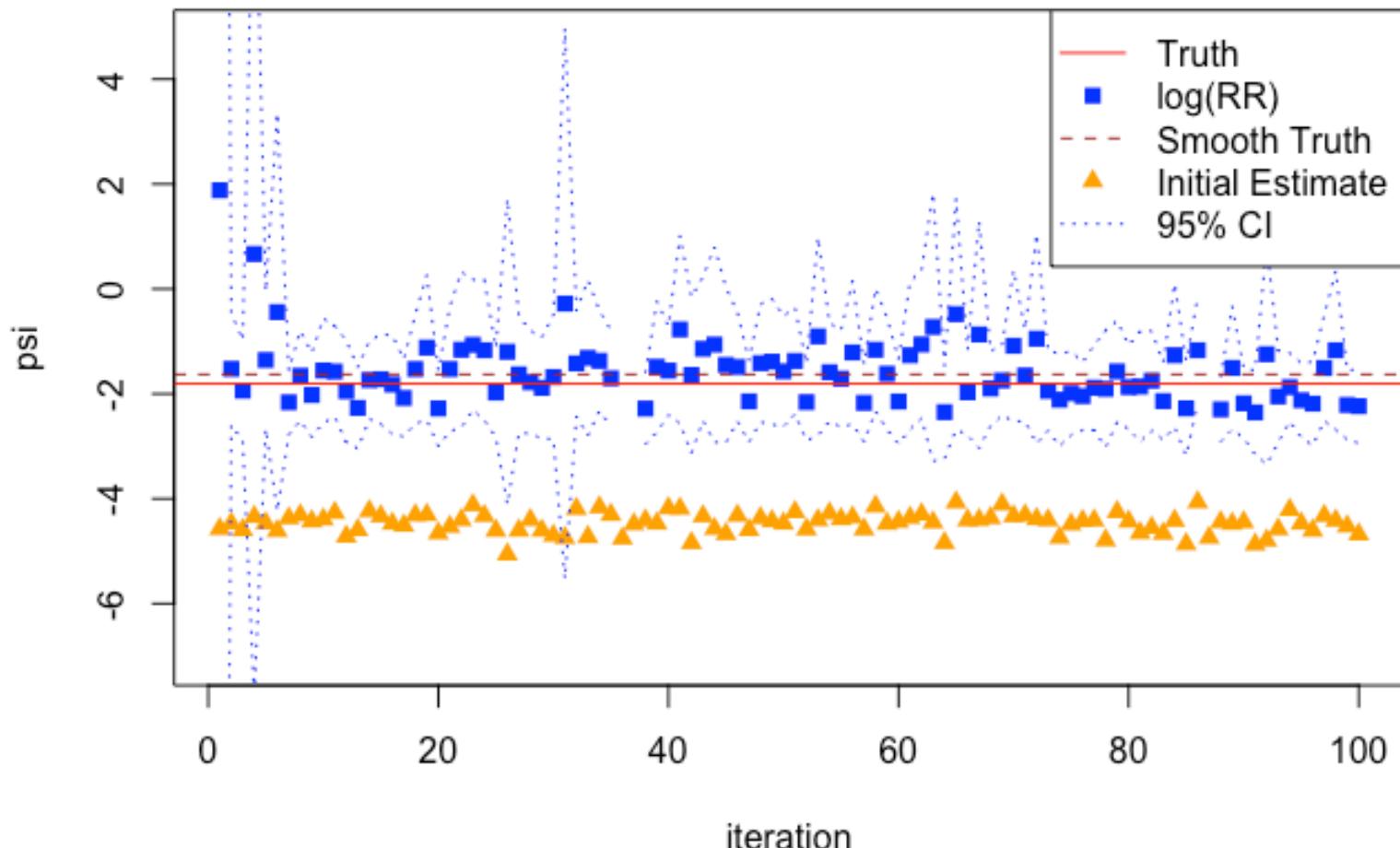
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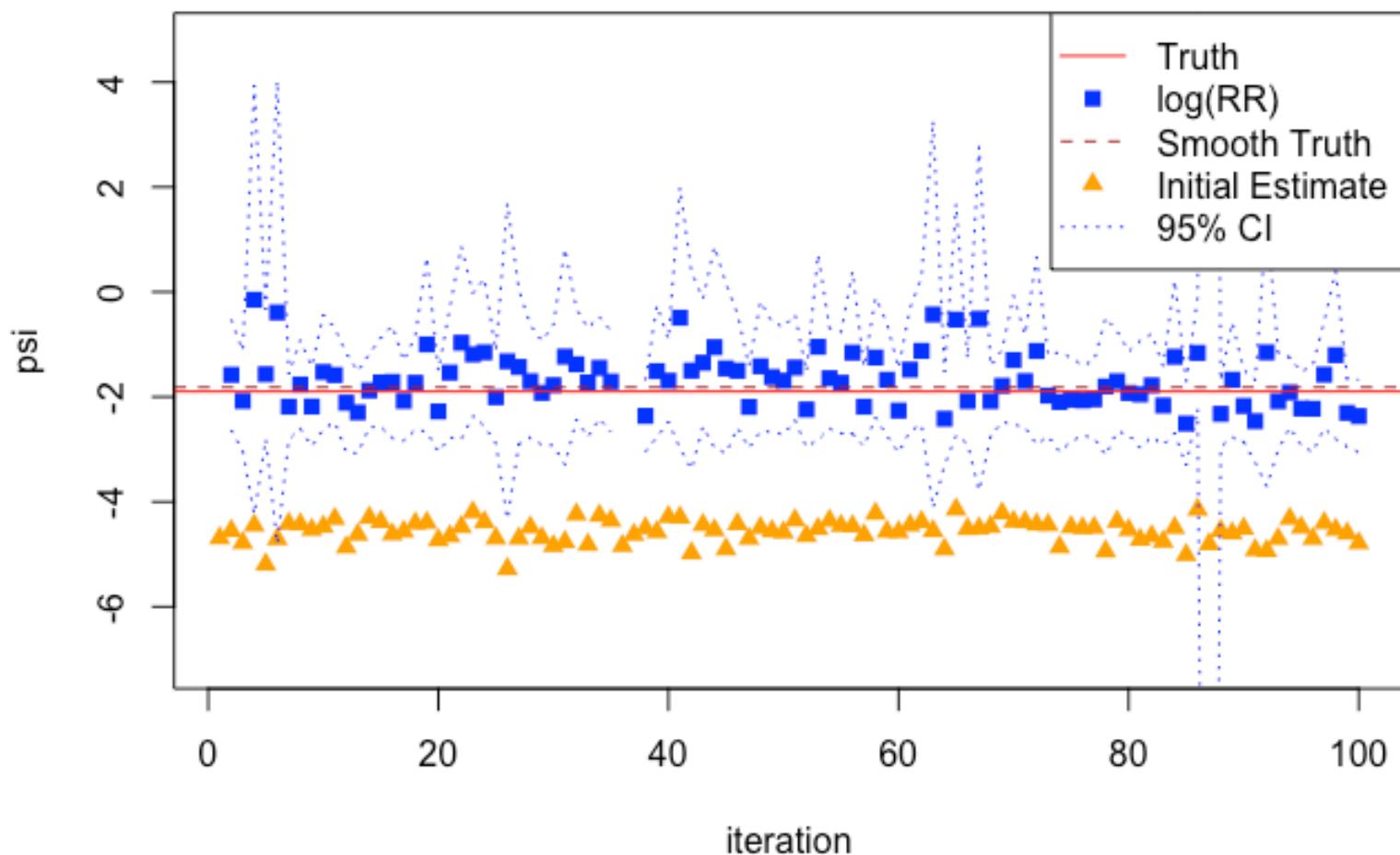
s1=1 Null case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=0.25



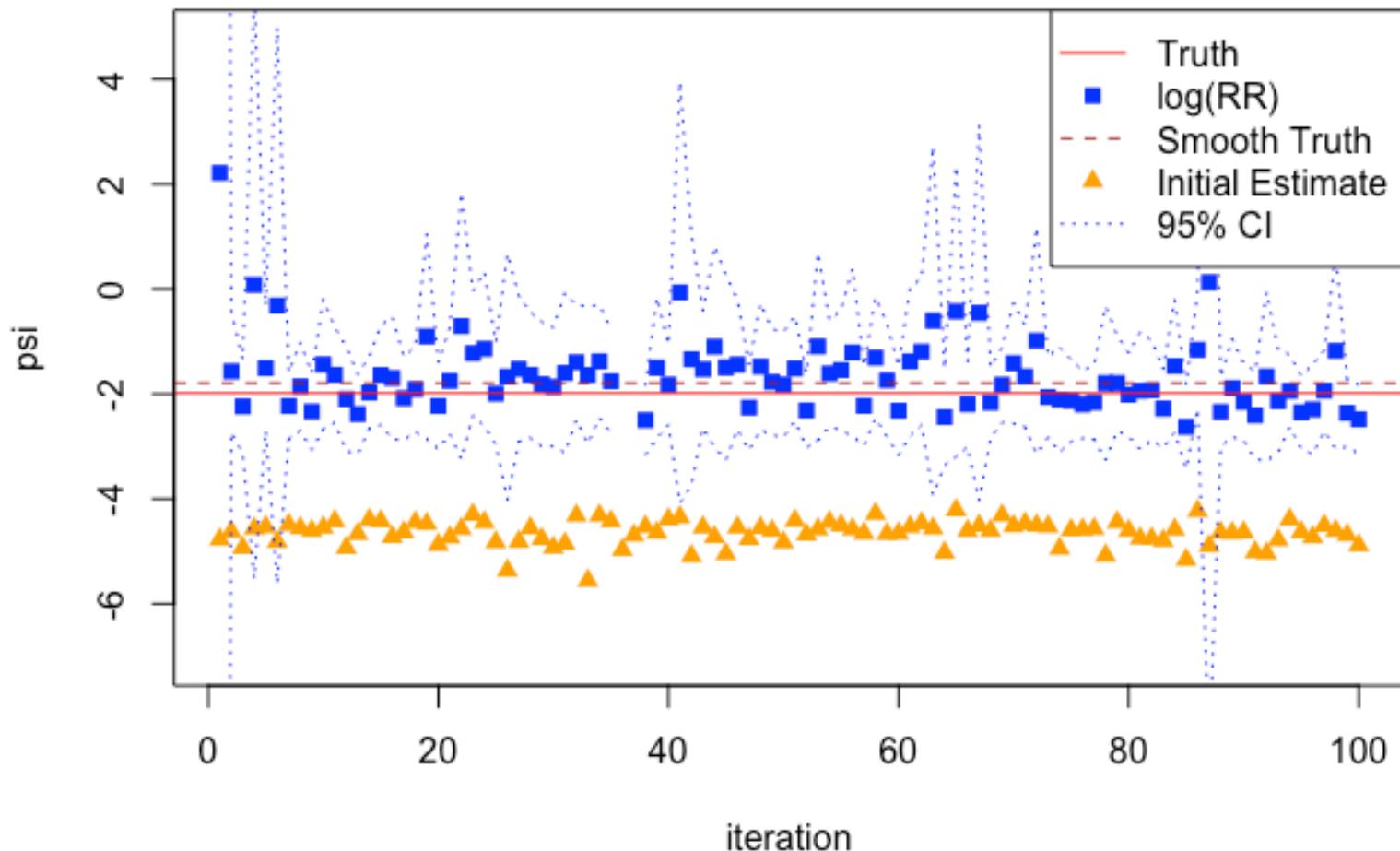
$s1=0$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=0.25



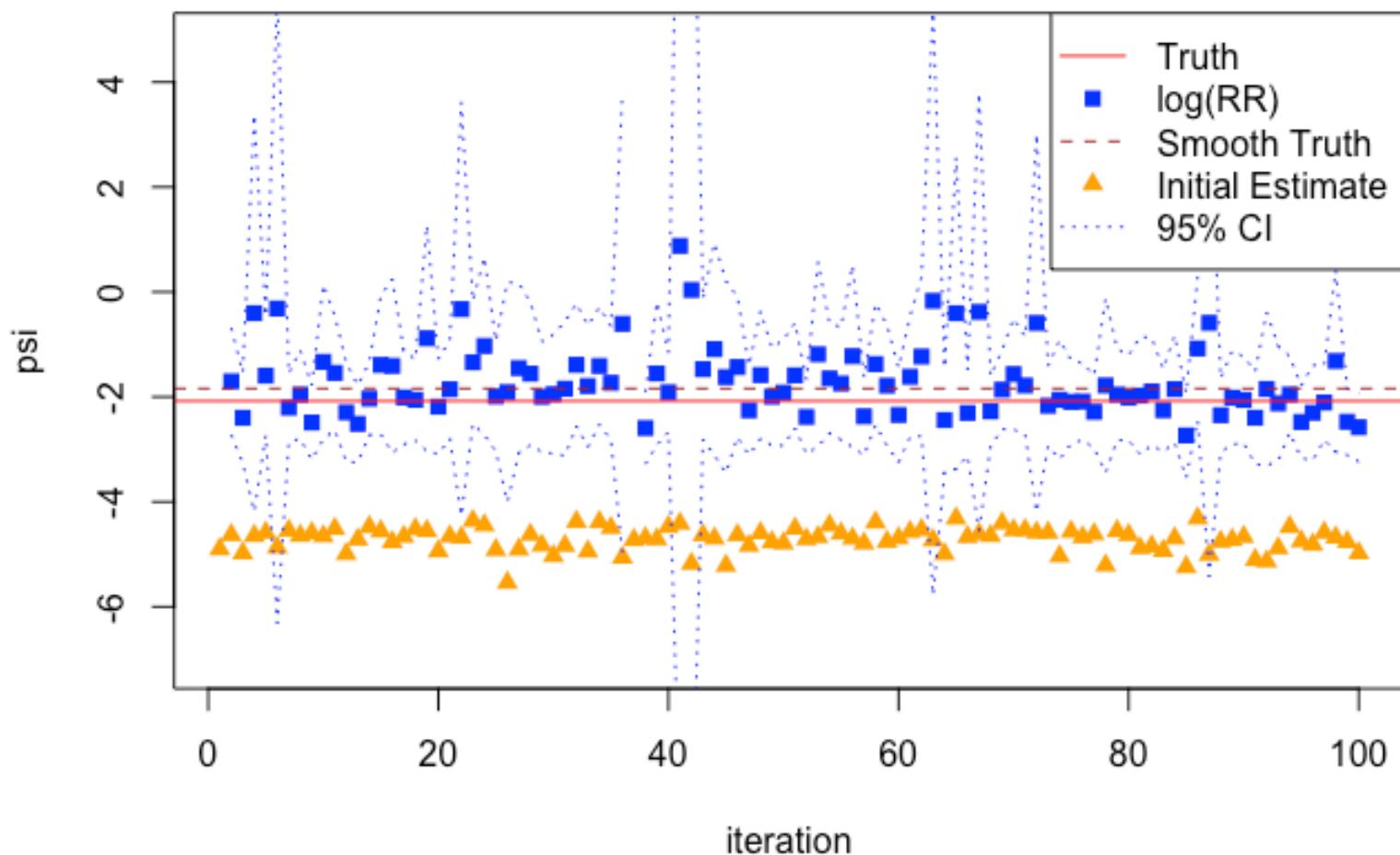
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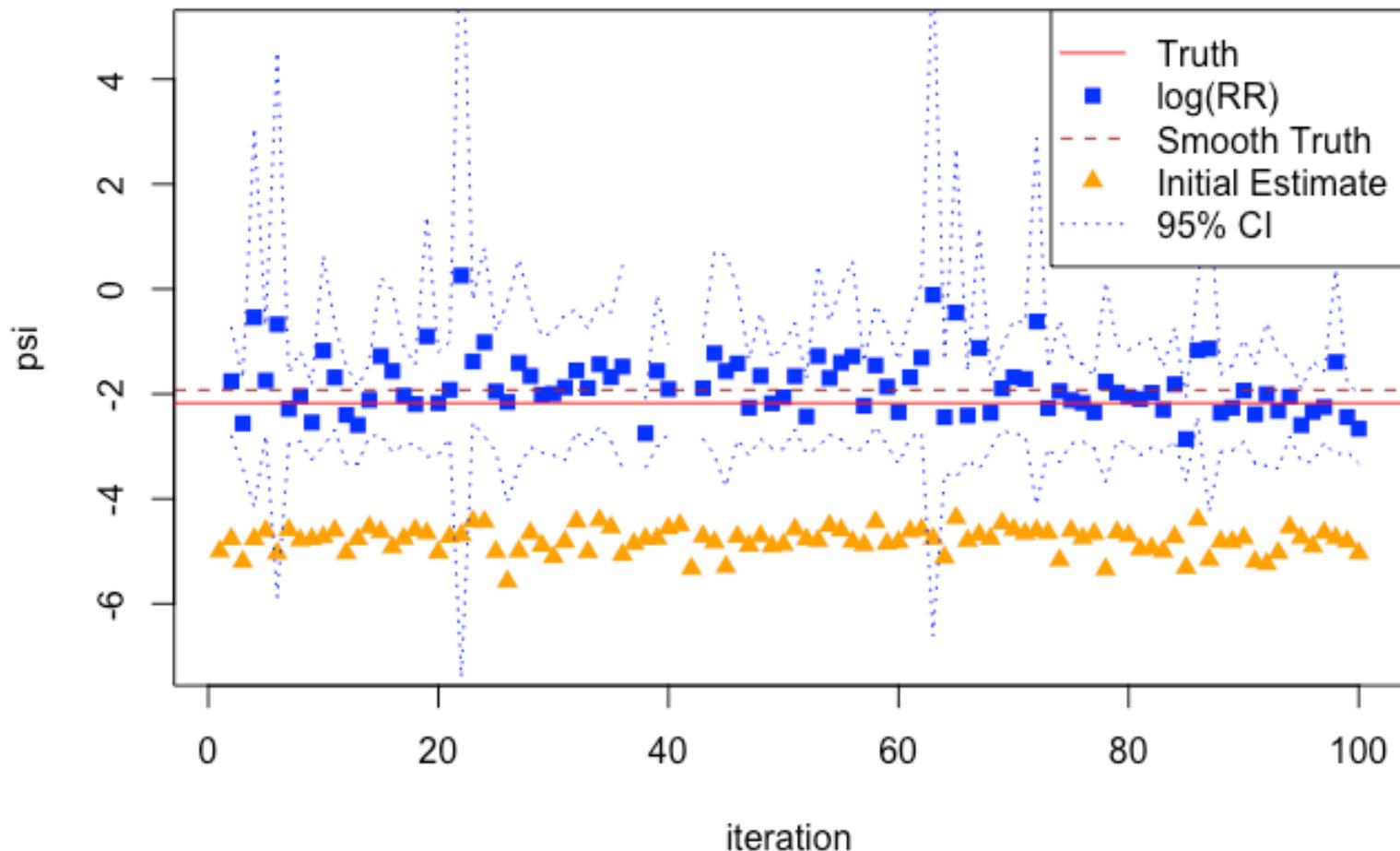
$s_1=0.2$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=0.25



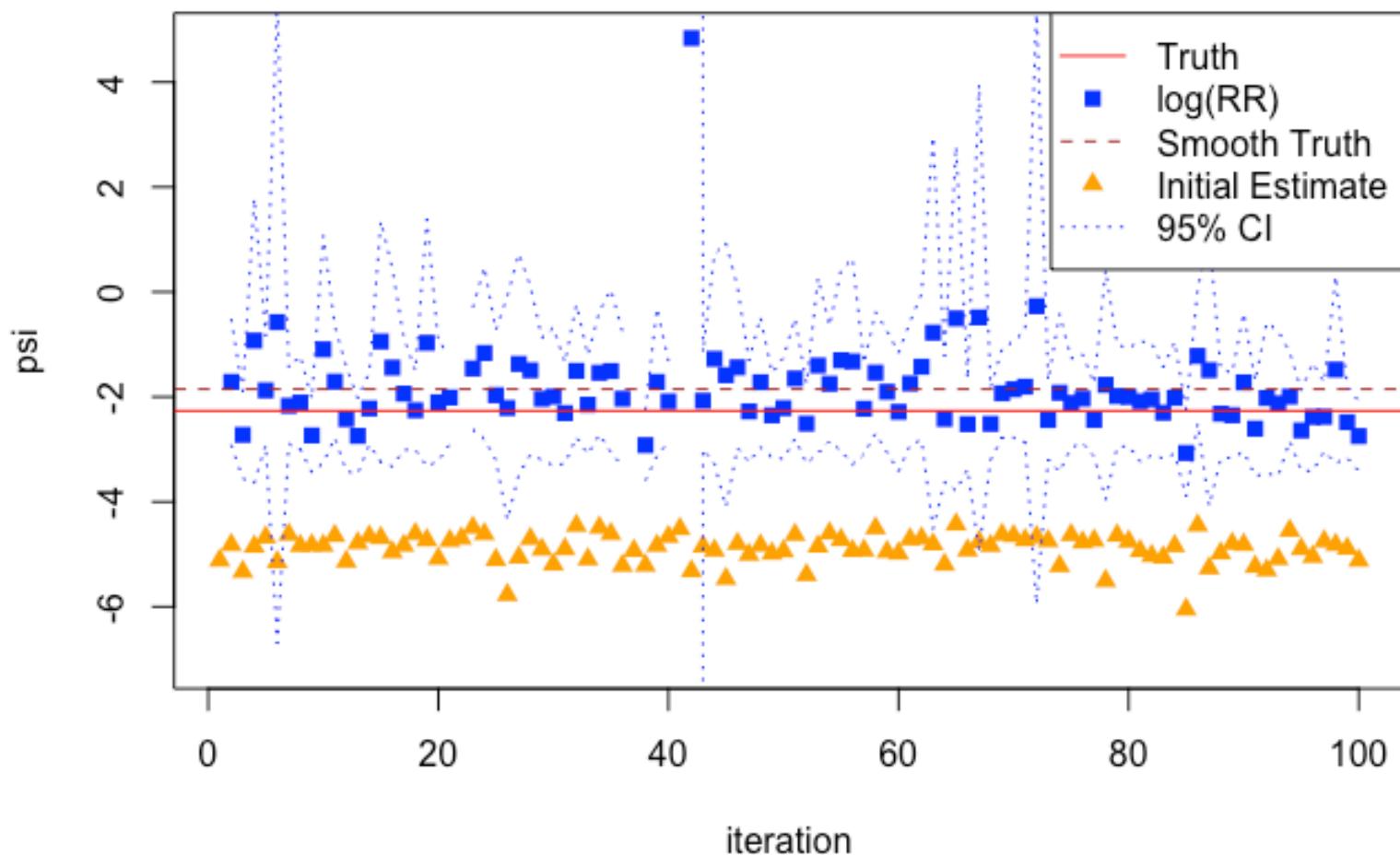
$s_1=0.3$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=0.25



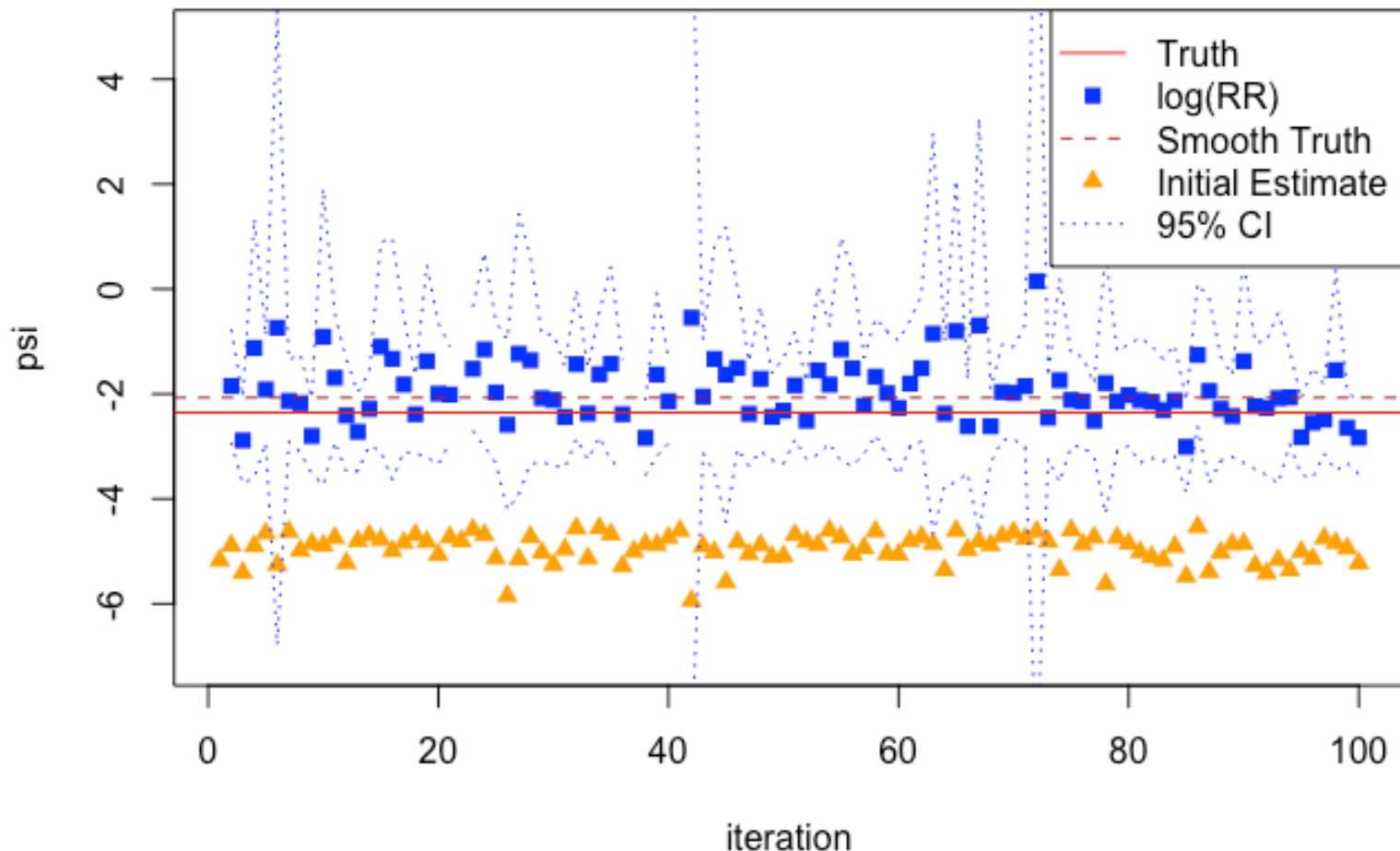
$s1=0.4$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=0.25



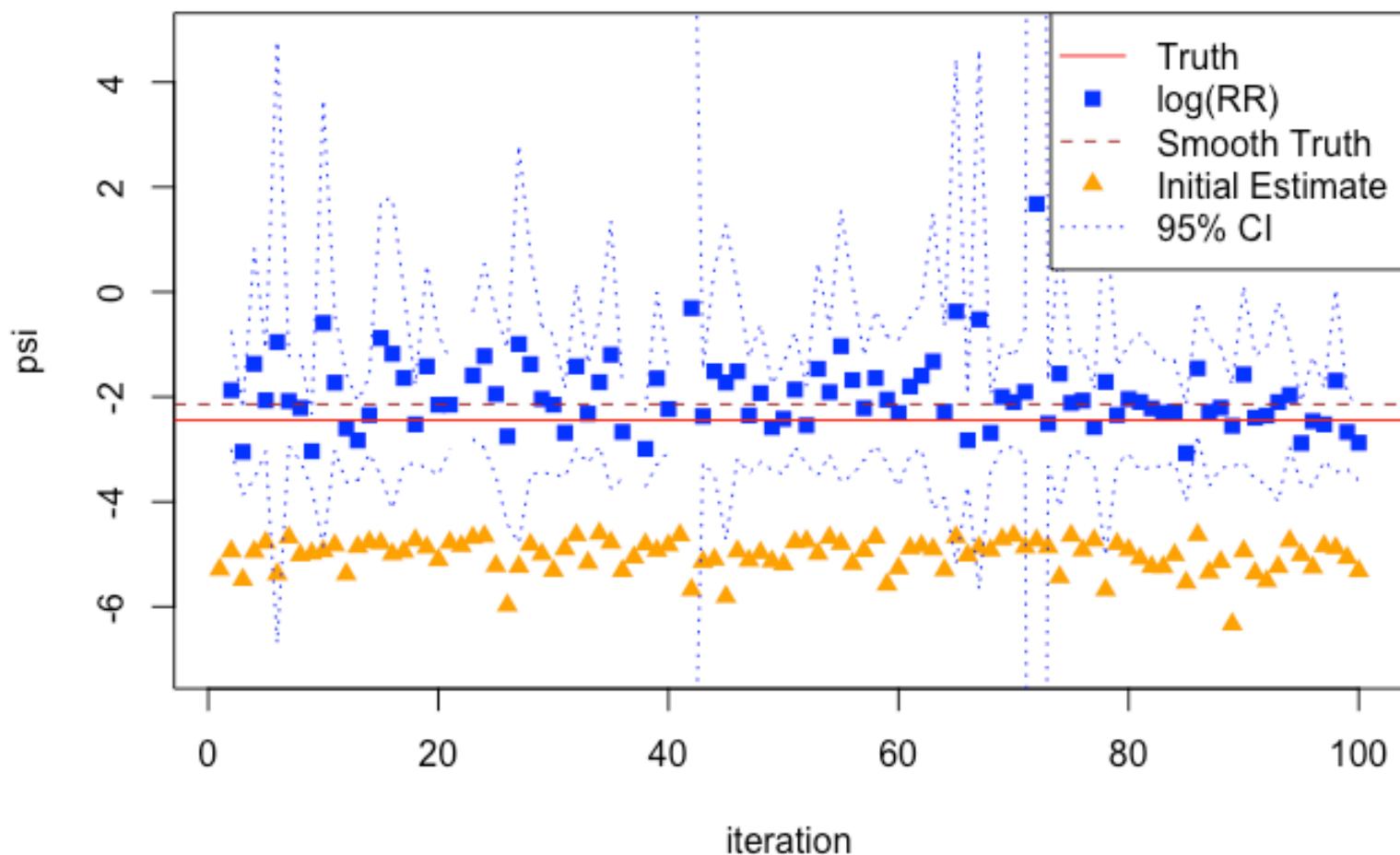
$s1=0.5$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=0.25



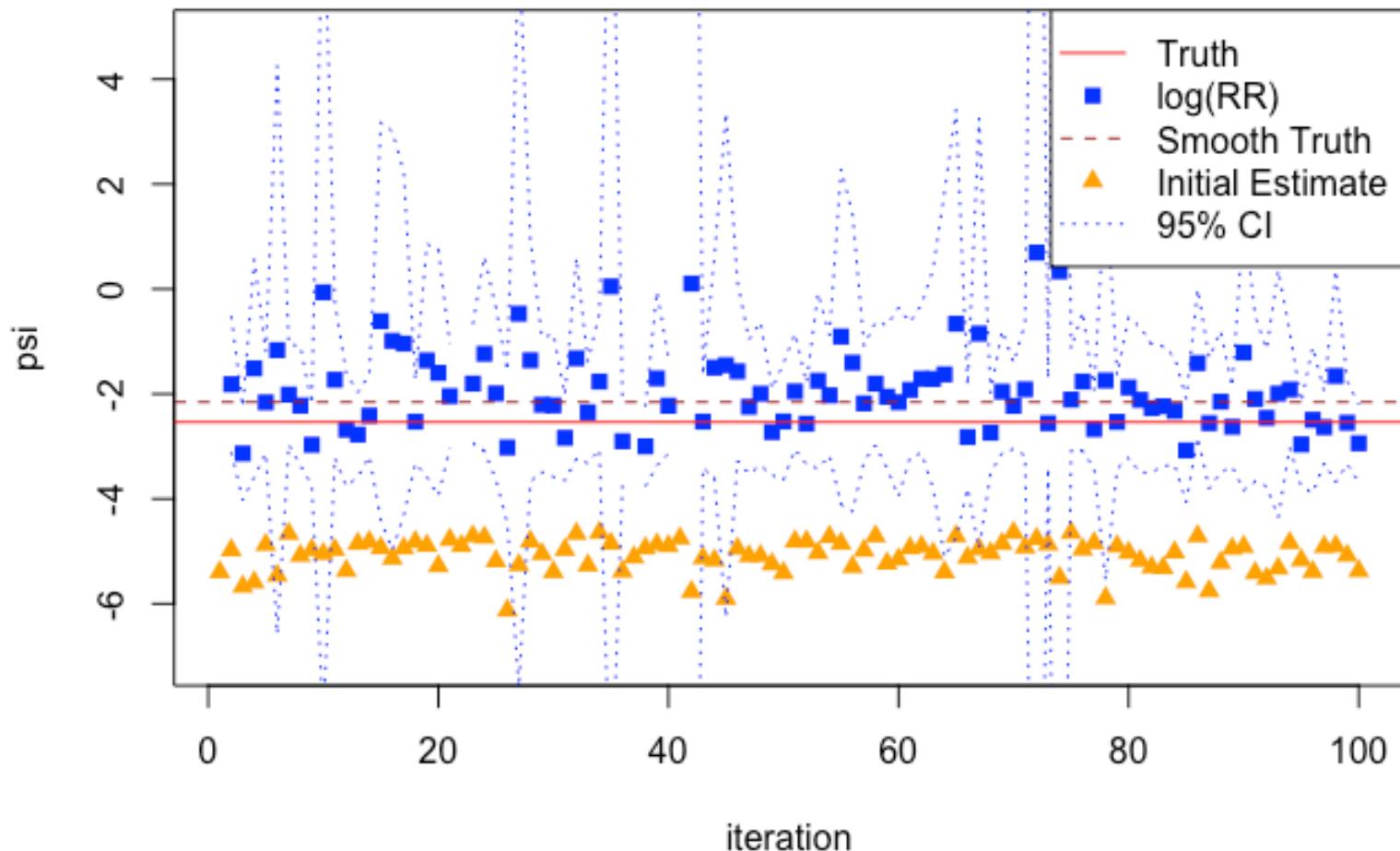
$s1=0.6$ Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=0.25



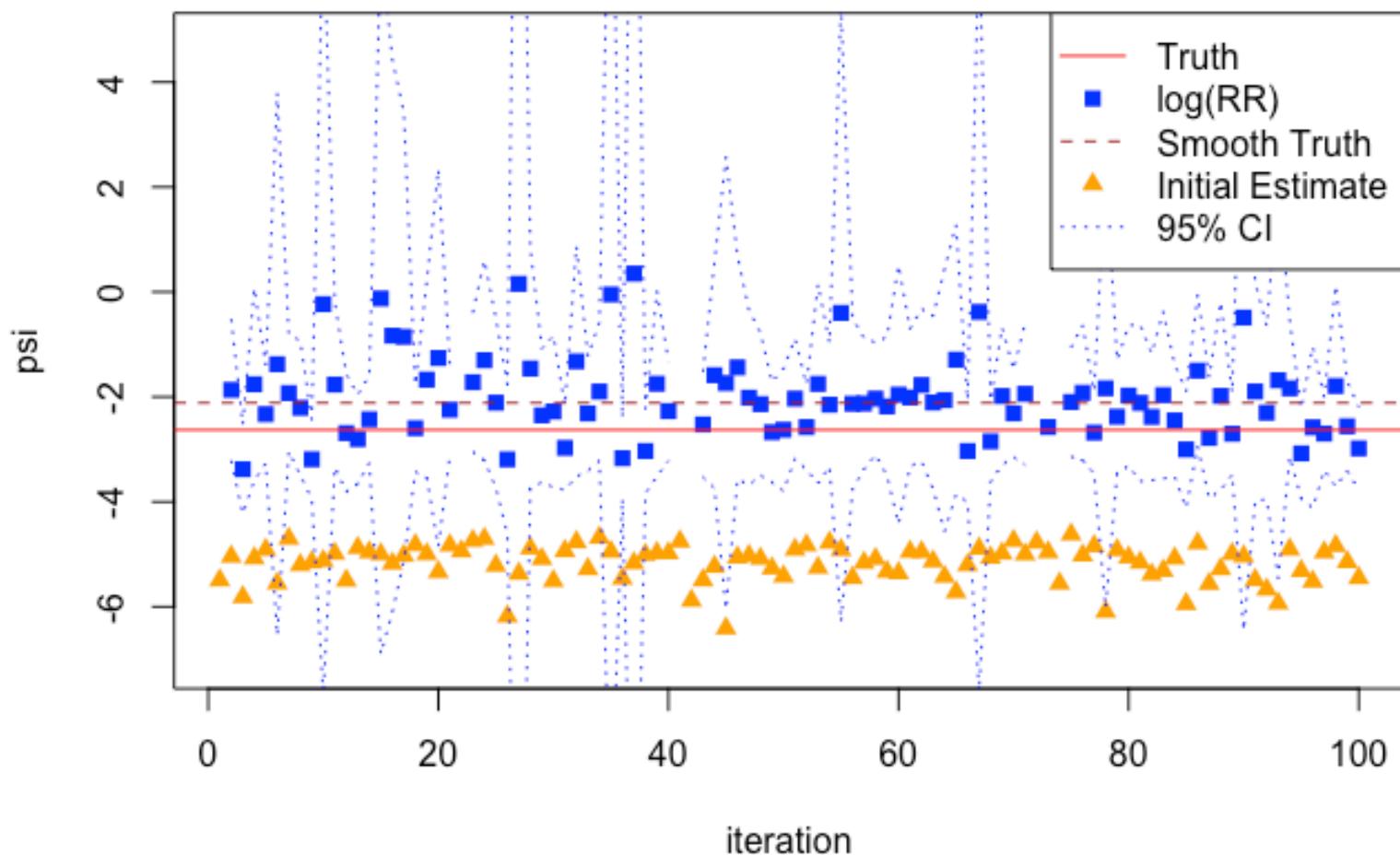
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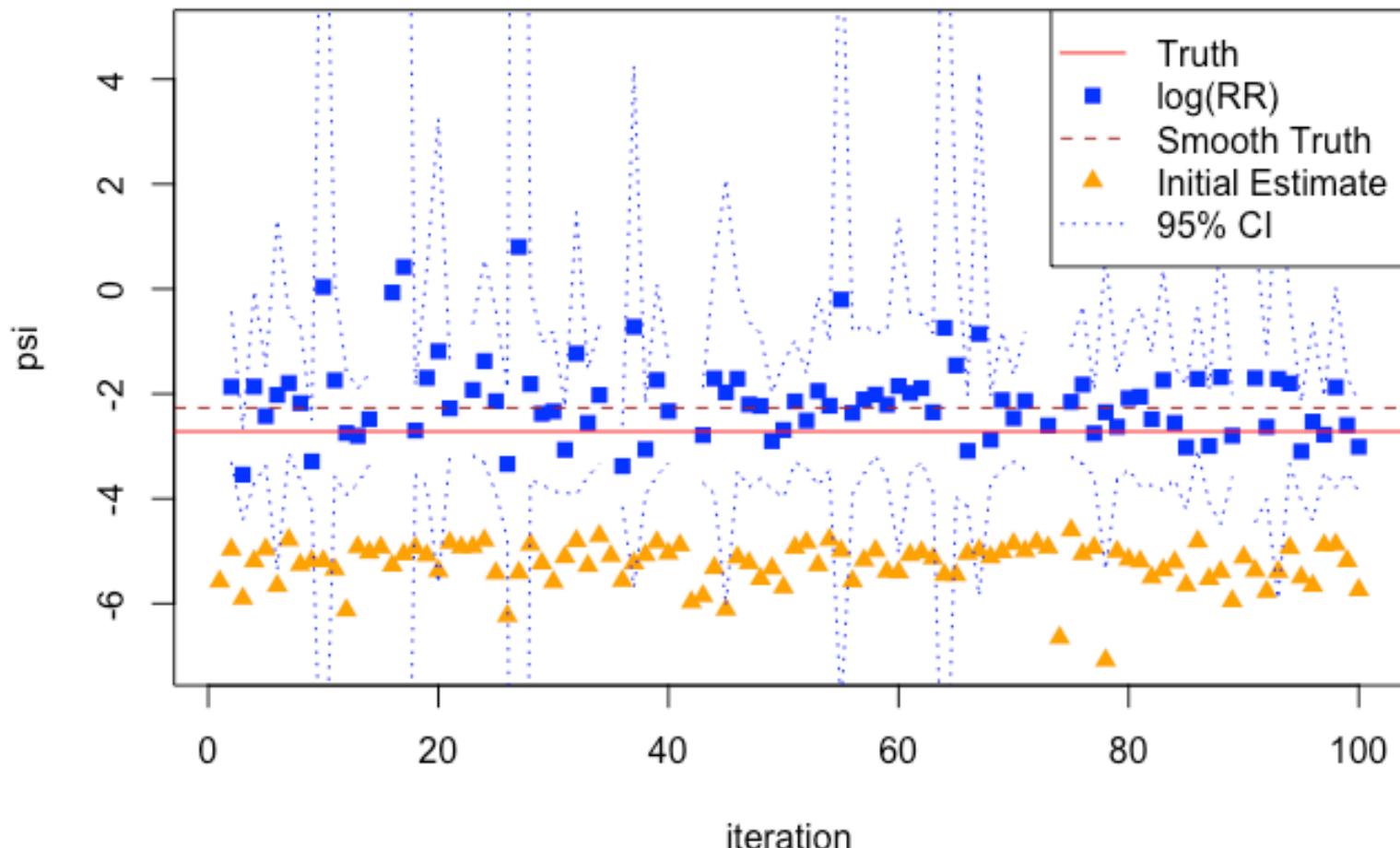
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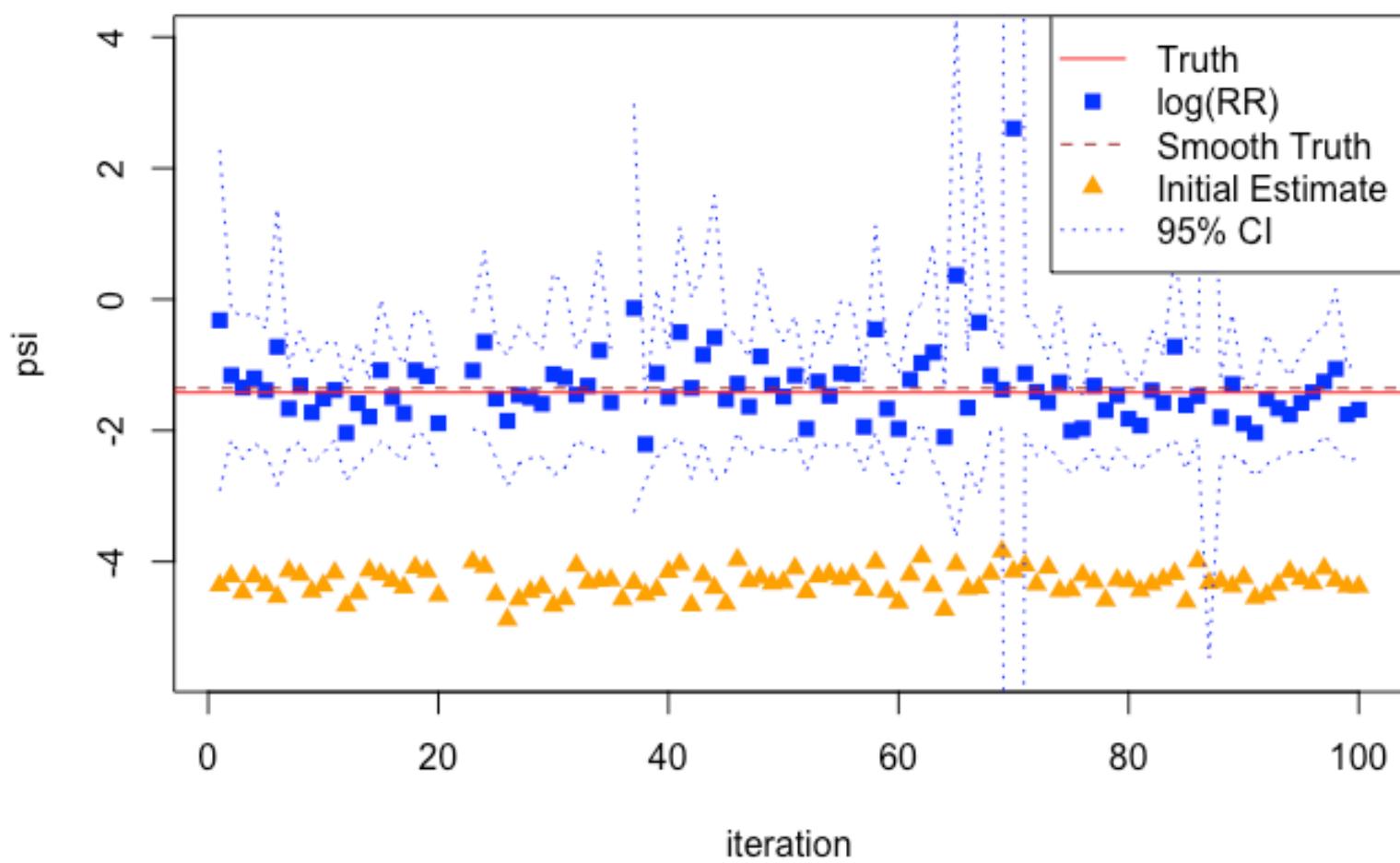
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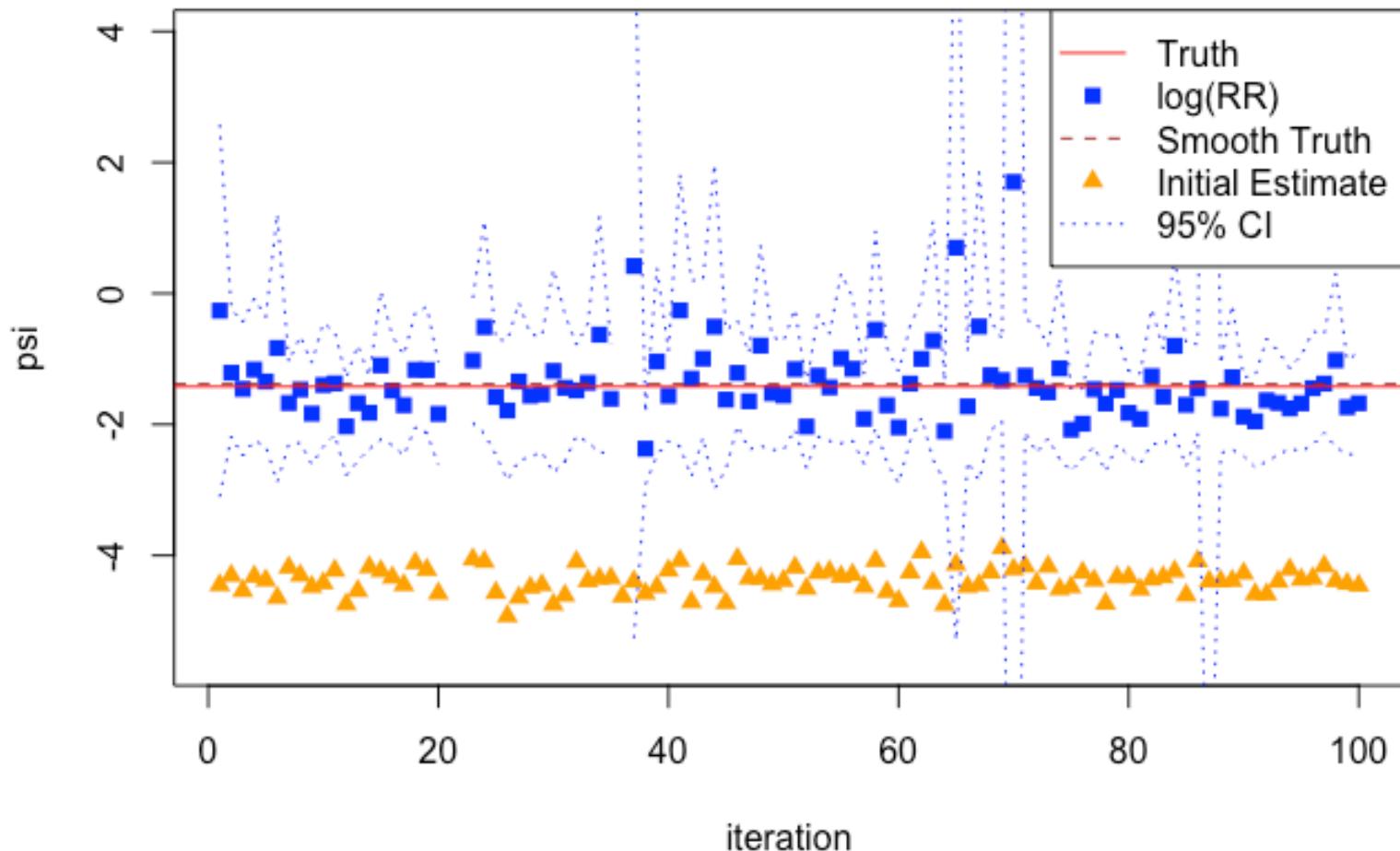
s1=1 Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=0.25



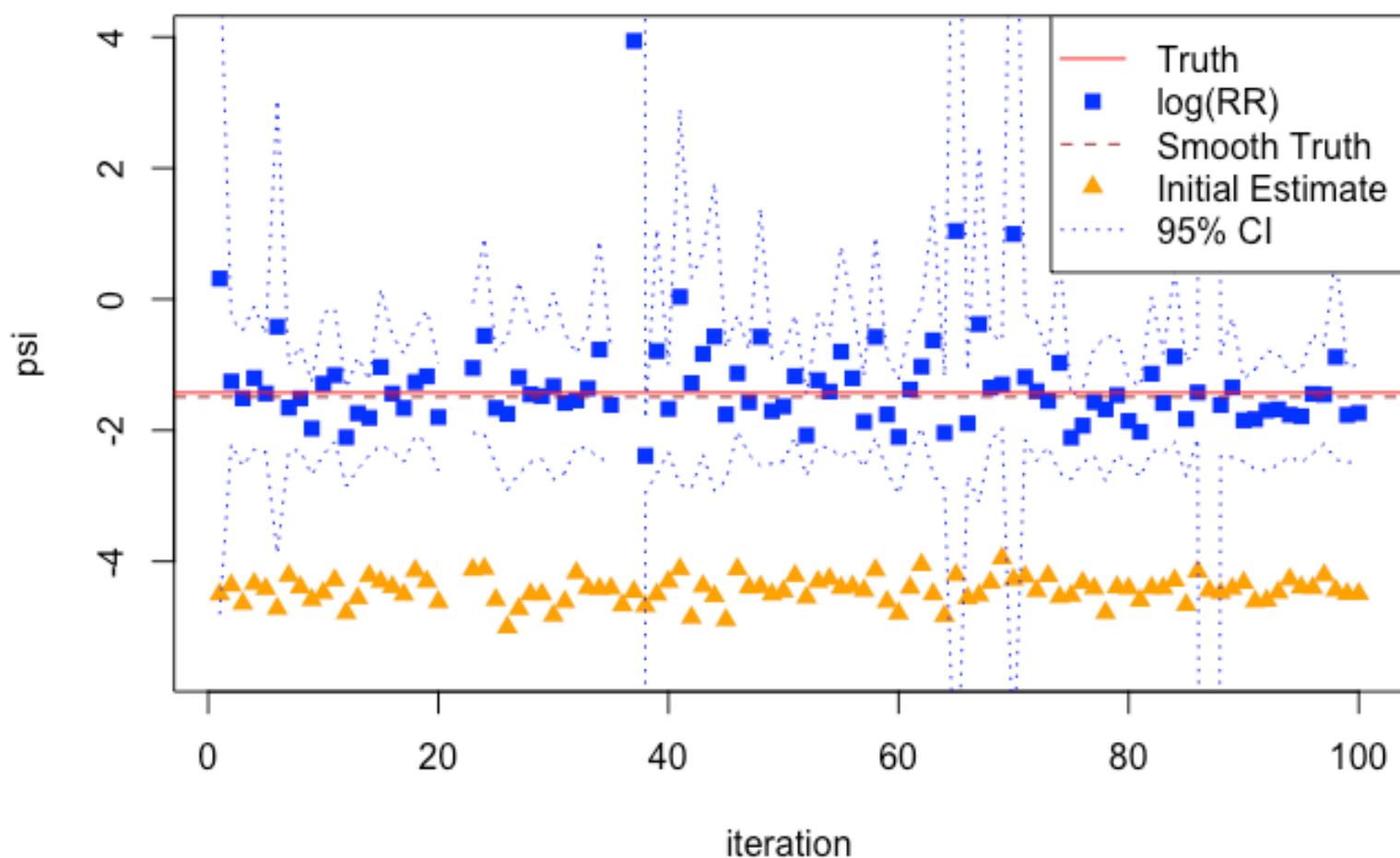
s1=0 Null case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=0.5



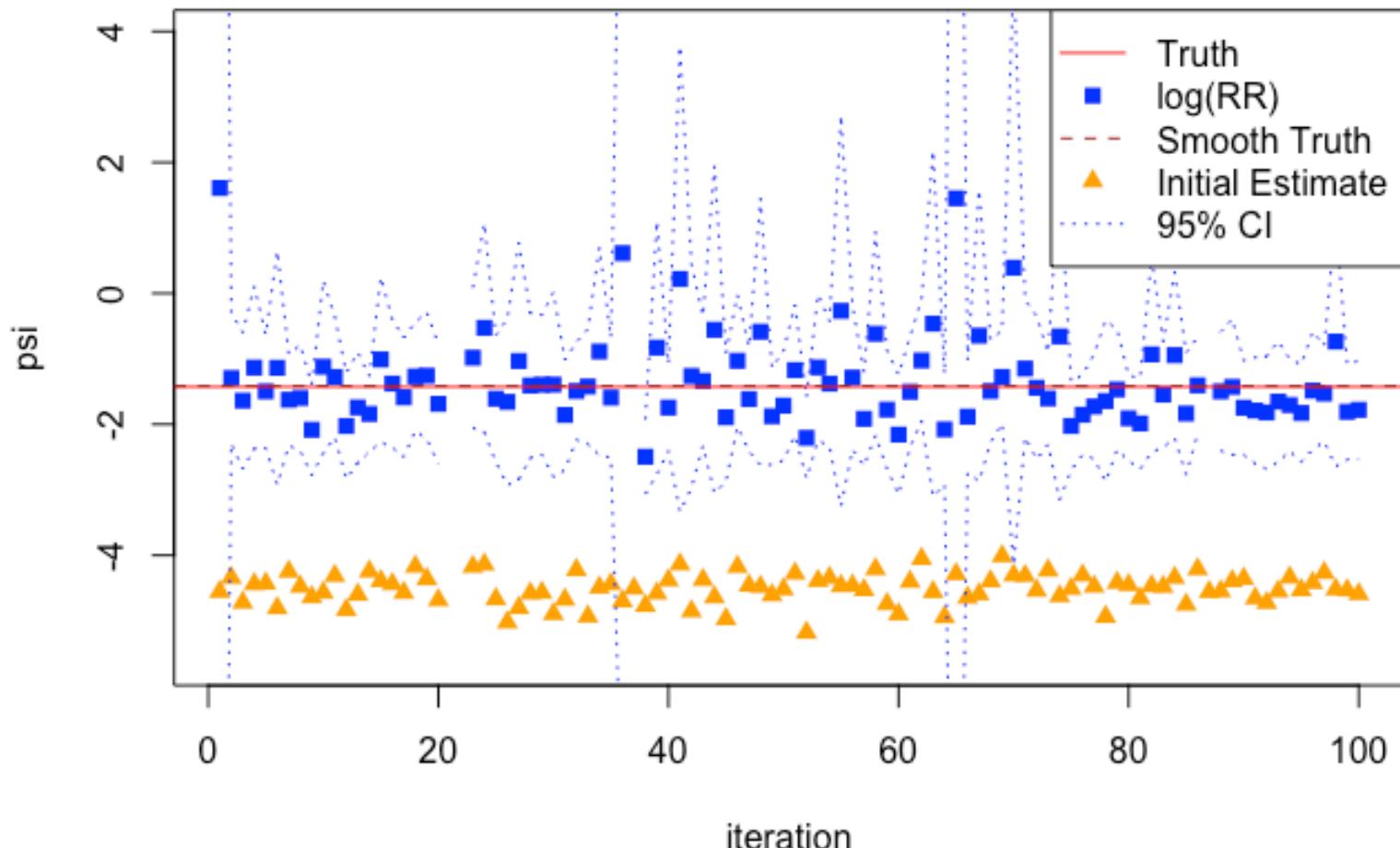
s1=0.1 Null case for cor(S1,W)=0.75, crossover rate=1, sample rate=0.5



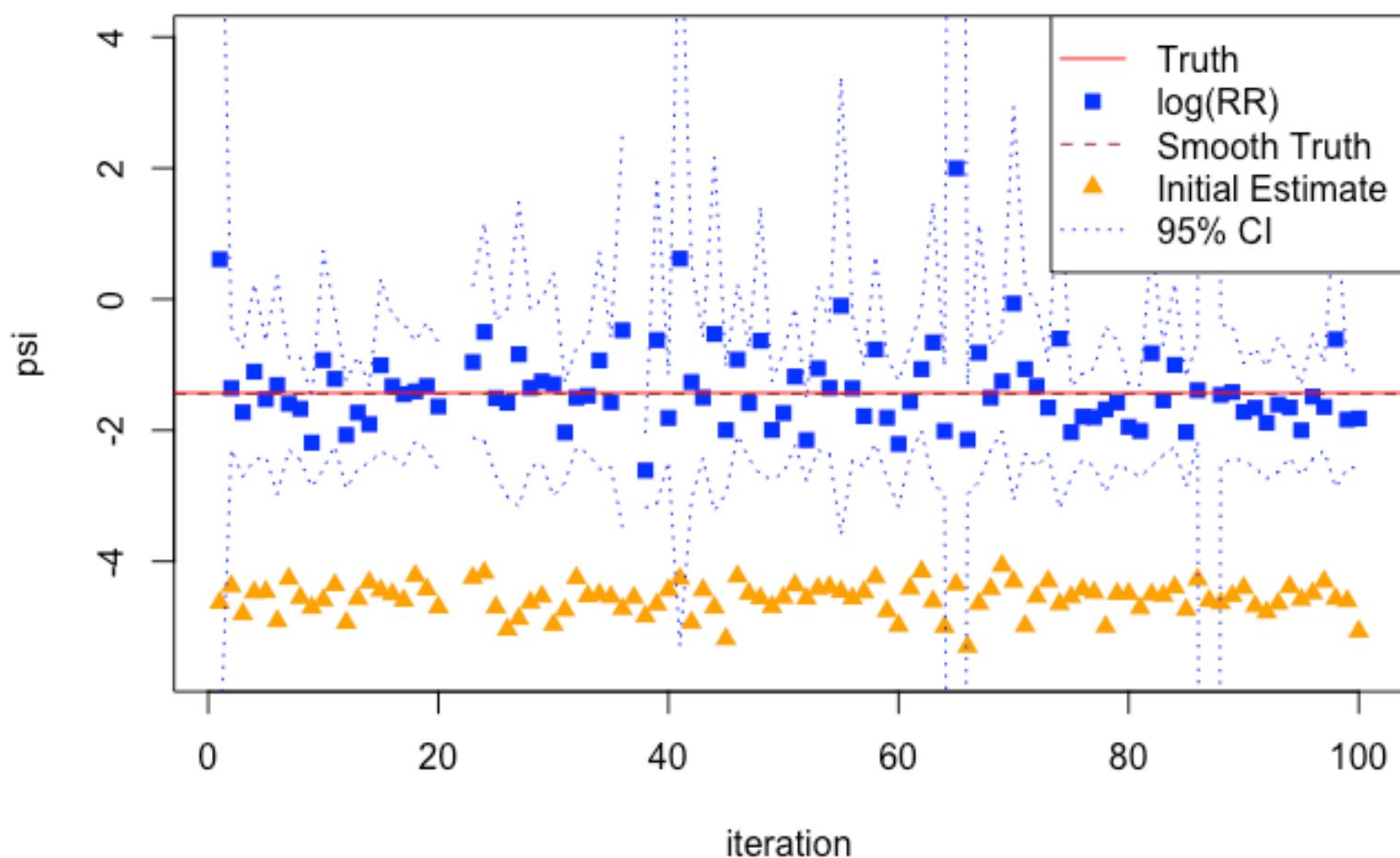
s1=0.2 Null case for cor(S1,W)=0.75, crossover rate=1, sample rate=0.5



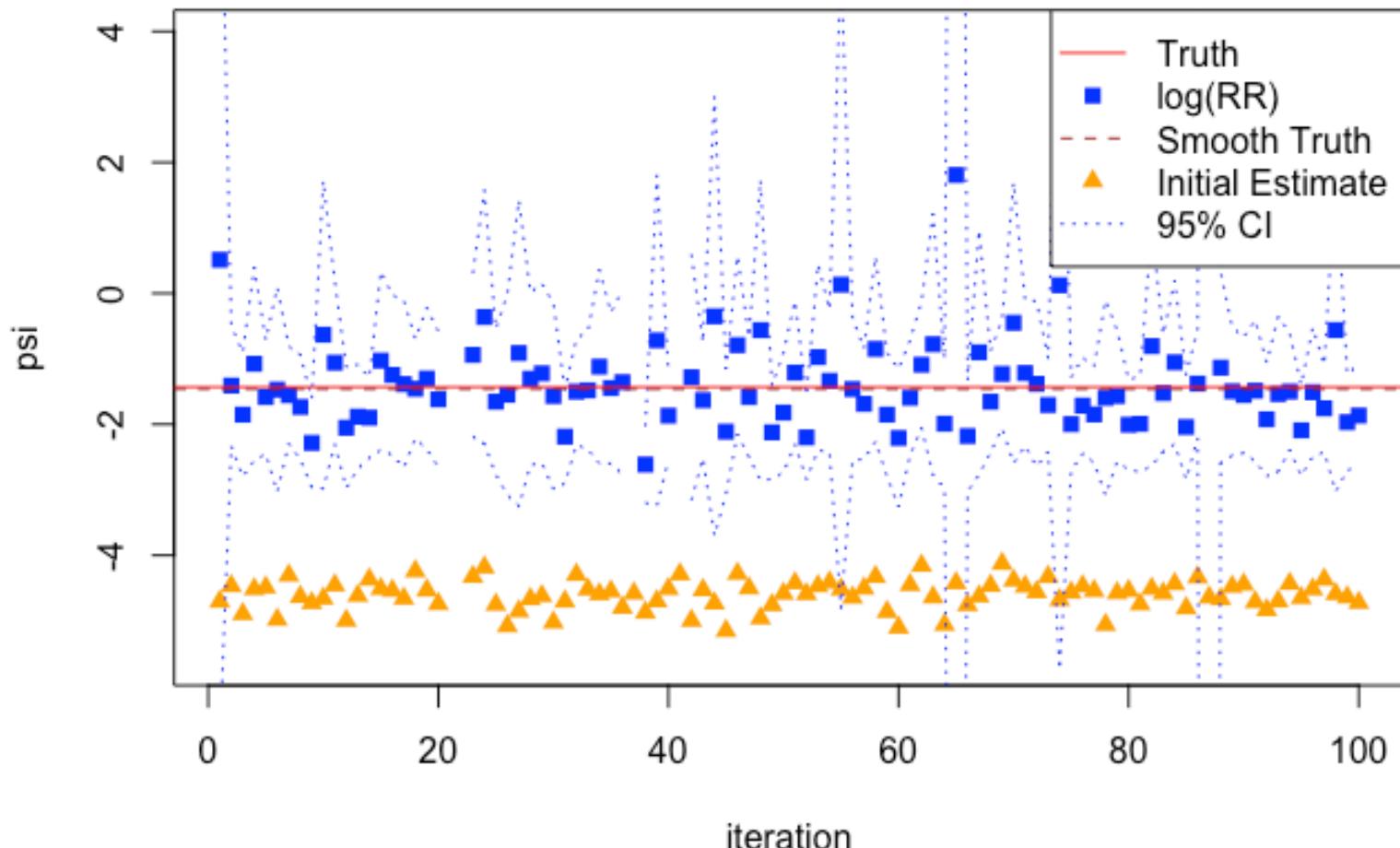
$s_1=0.3$ Null case for $\text{cor}(S_1, W)=0.75$, crossover rate=1, sample rate=0.5



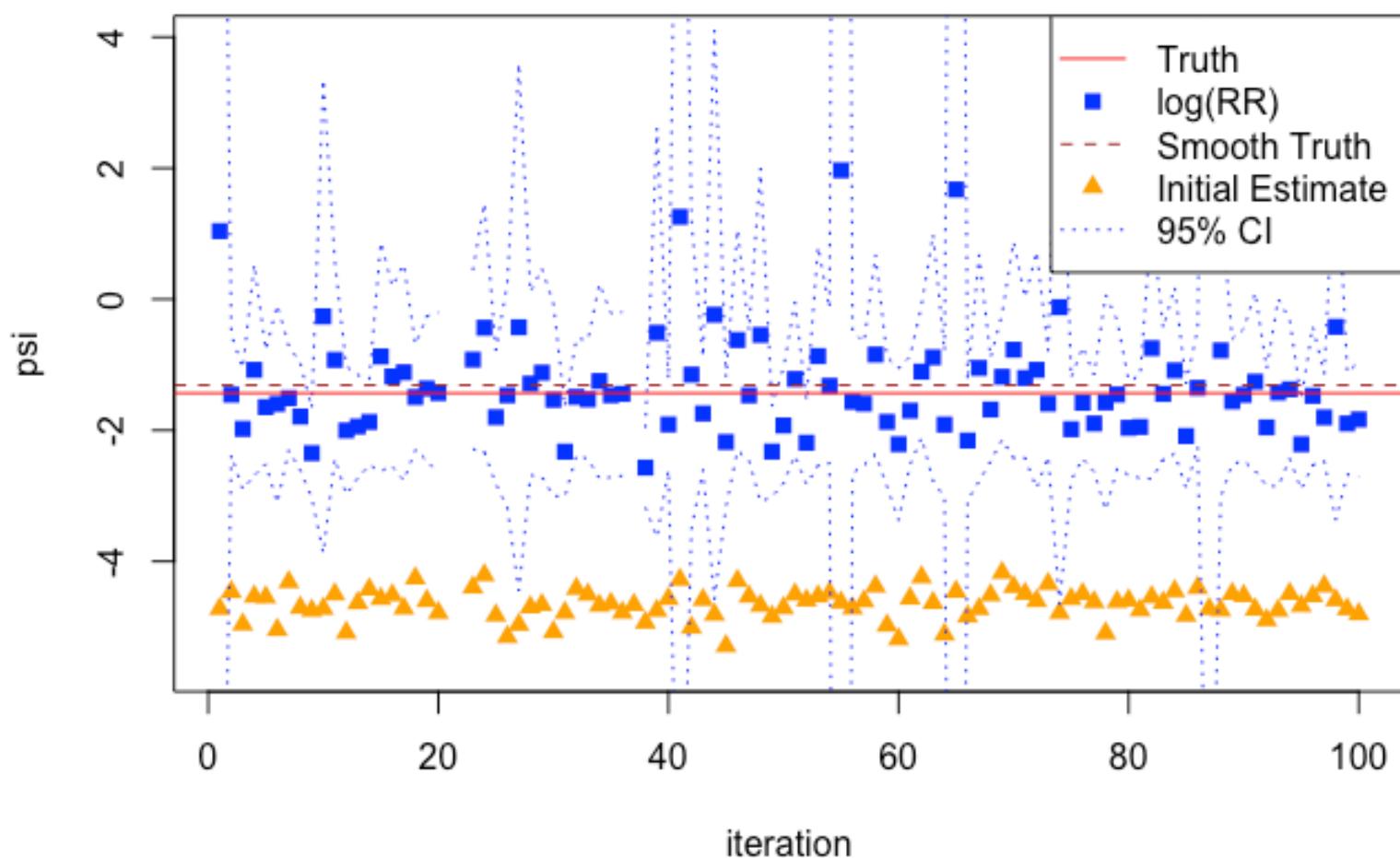
$s_1=0.4$ Null case for $\text{cor}(S_1, W)=0.75$, crossover rate=1, sample rate=0.5



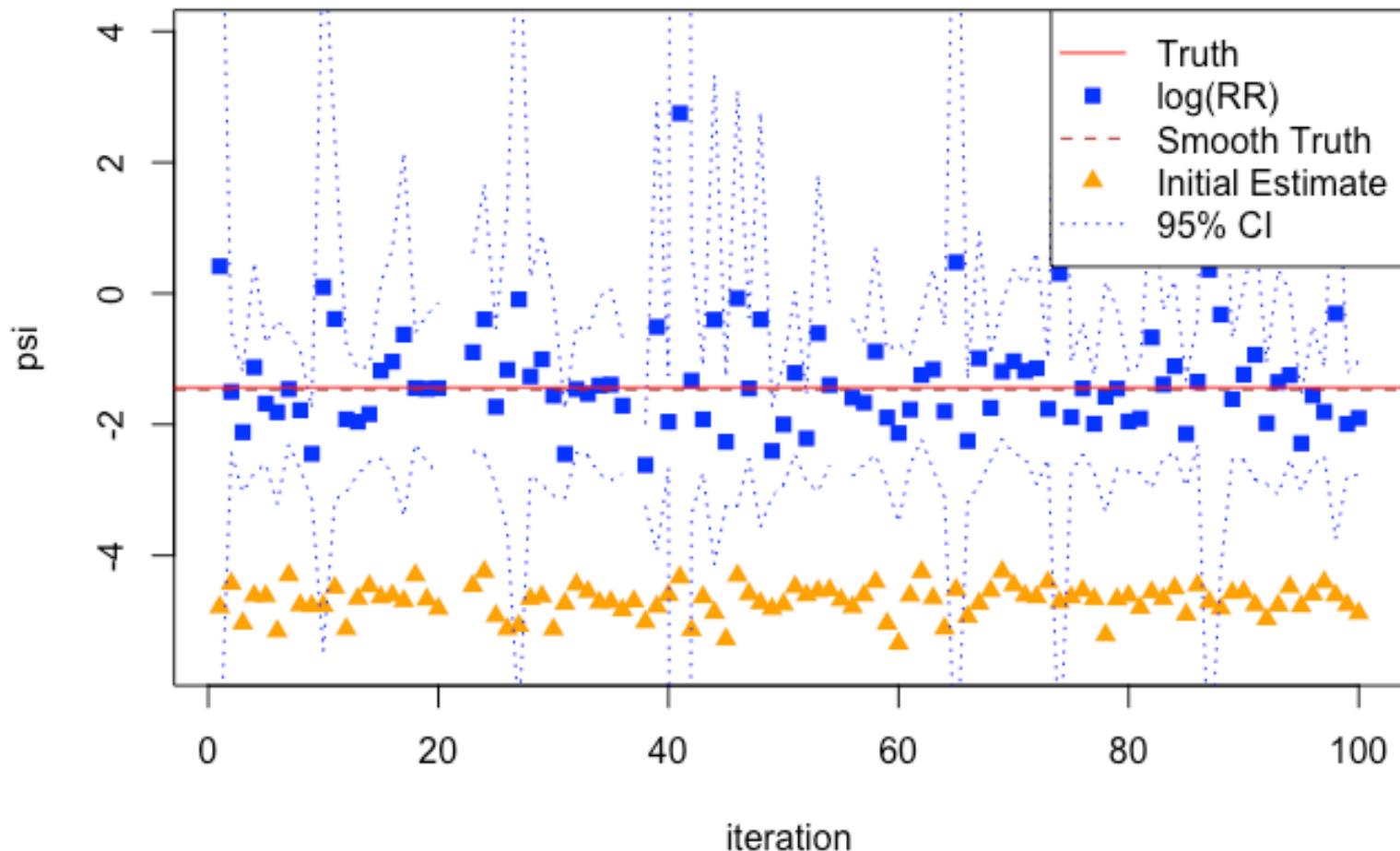
$s_1=0.5$ Null case for $\text{cor}(S_1, W)=0.75$, crossover rate=1, sample rate=0.5



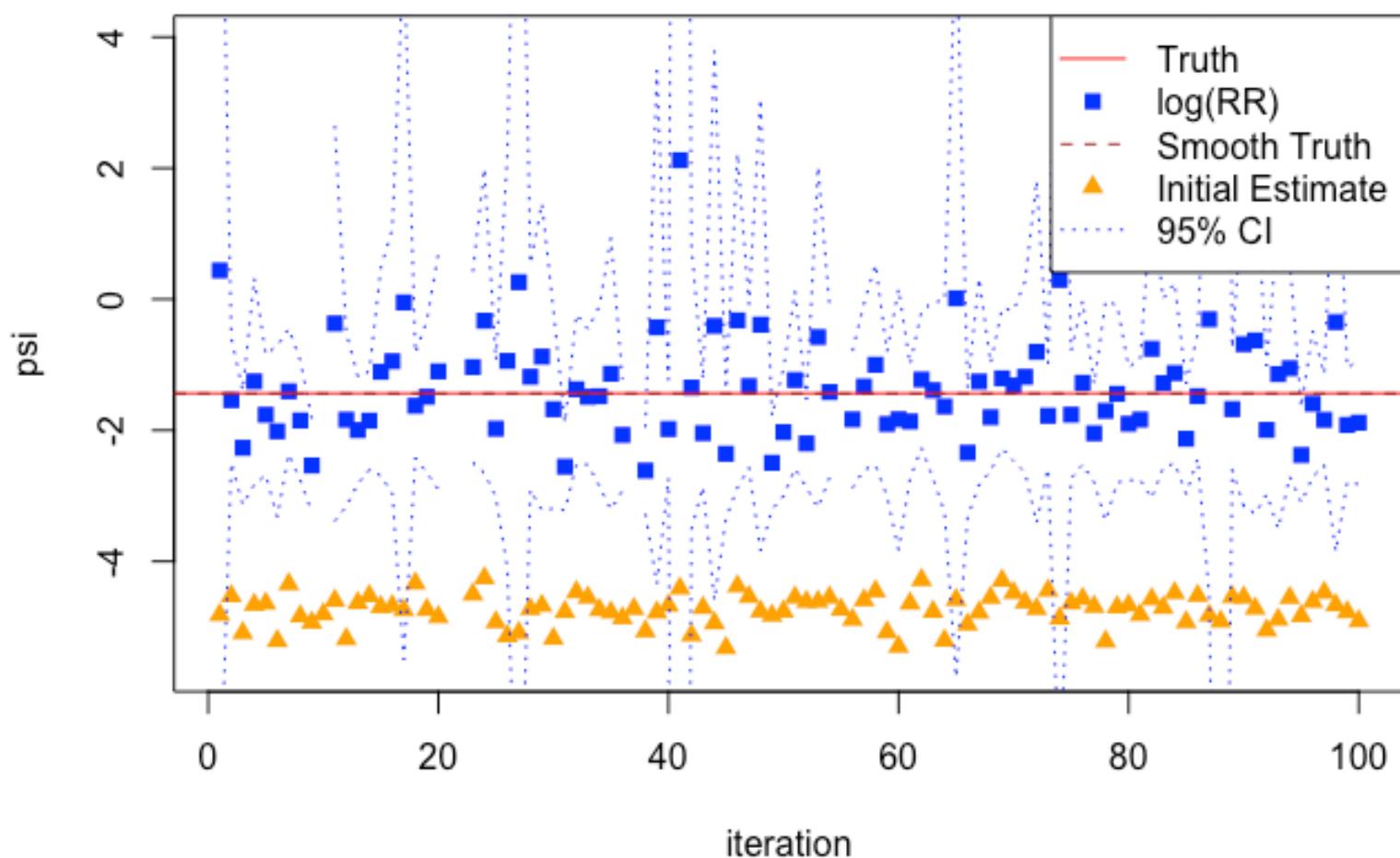
$s_1=0.6$ Null case for $\text{cor}(S_1, W)=0.75$, crossover rate=1, sample rate=0.5



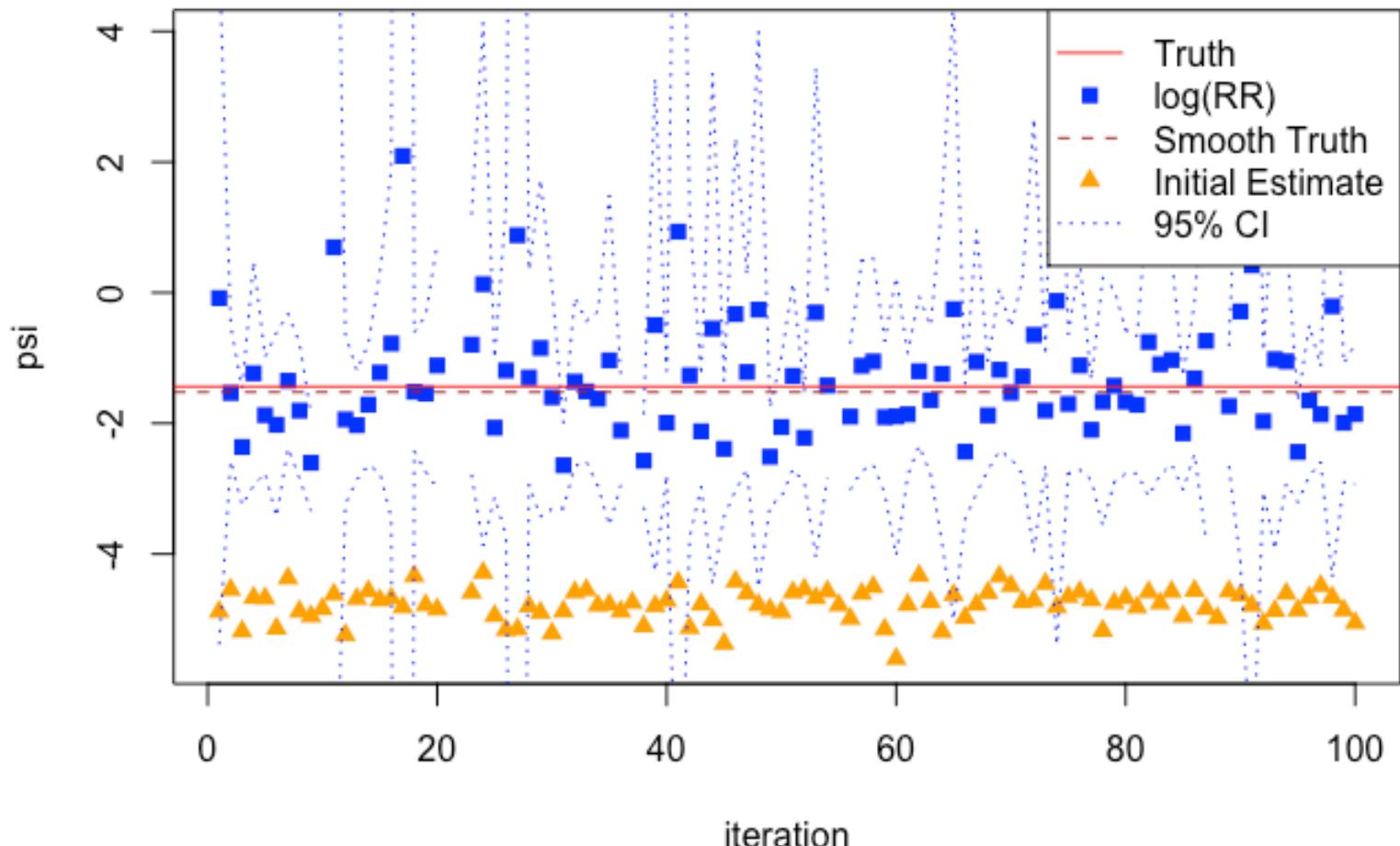
$s_1=0.7$ Null case for $\text{cor}(S_1, W)=0.75$, crossover rate=1, sample rate=0.5



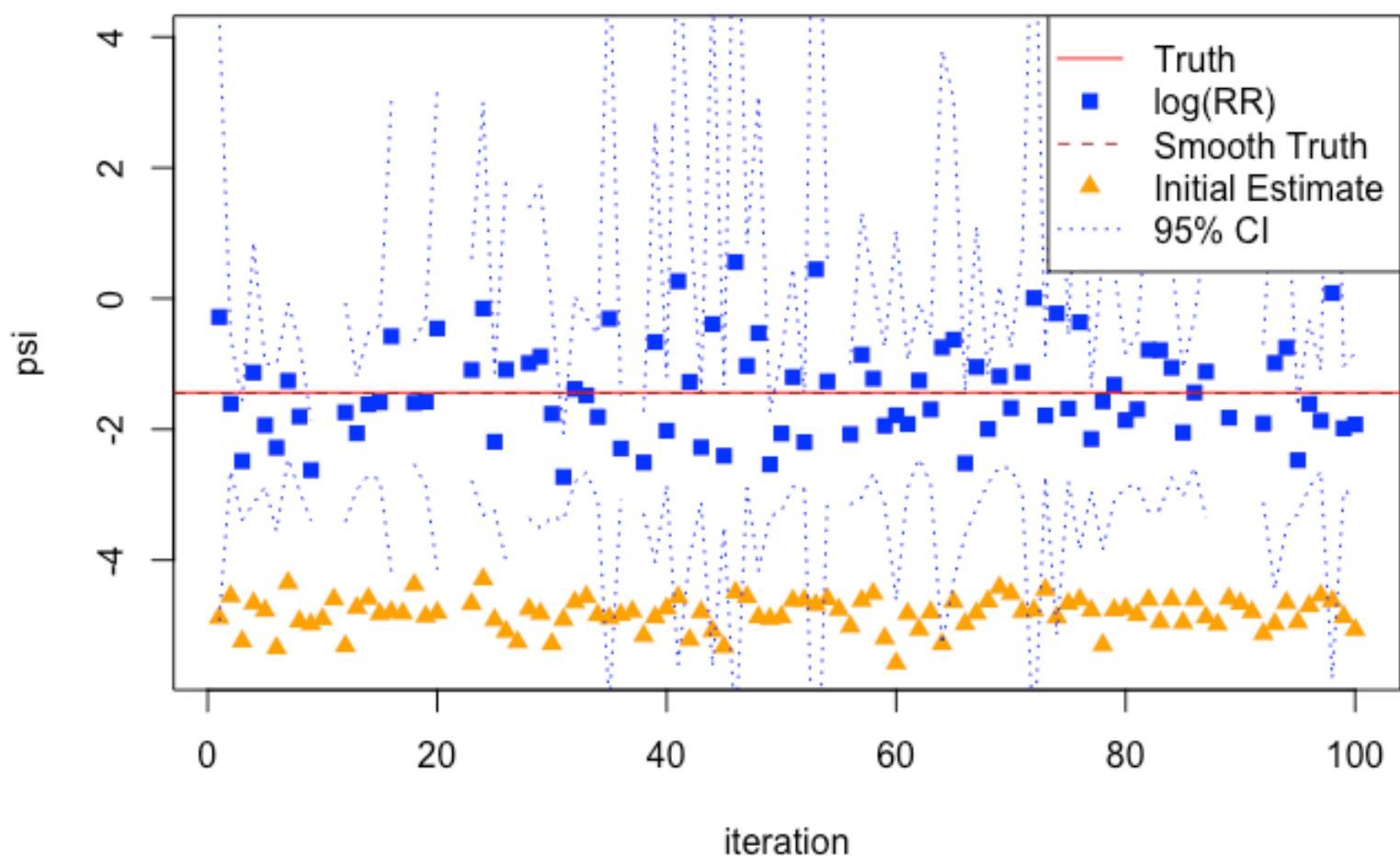
$s_1=0.8$ Null case for $\text{cor}(S_1, W)=0.75$, crossover rate=1, sample rate=0.5



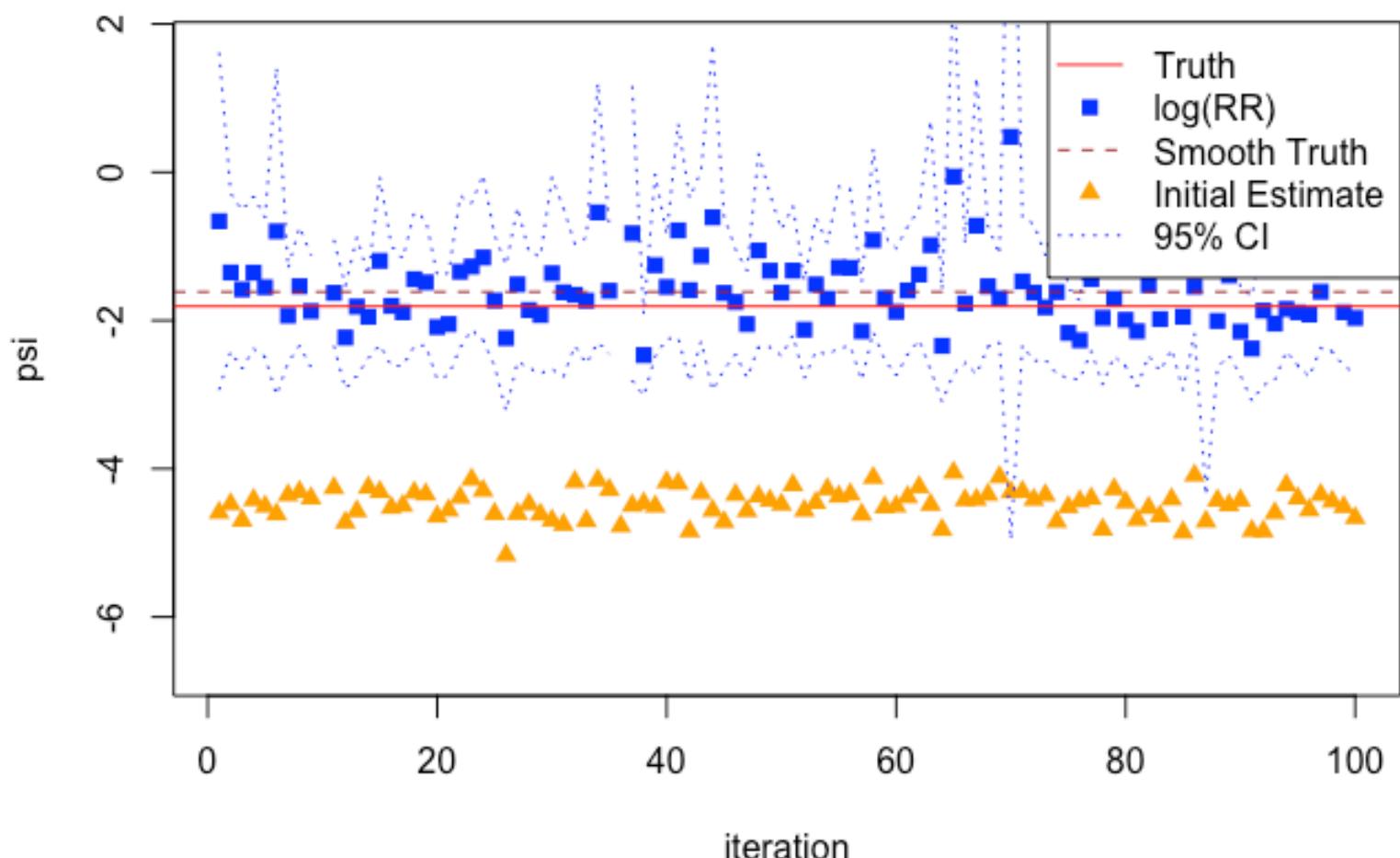
$s_1=0.9$ Null case for $\text{cor}(S_1, W)=0.75$, crossover rate=1, sample rate=0.5



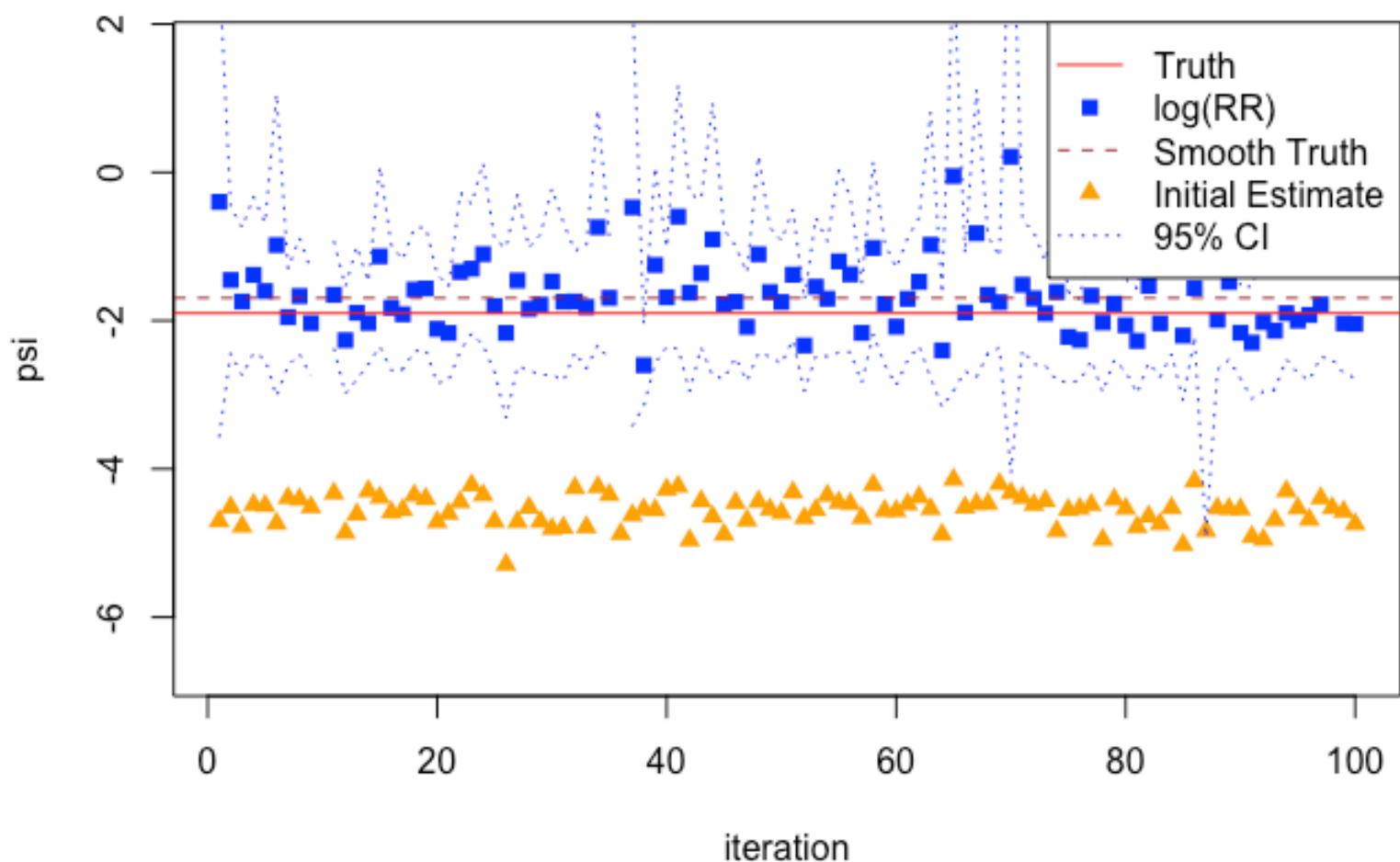
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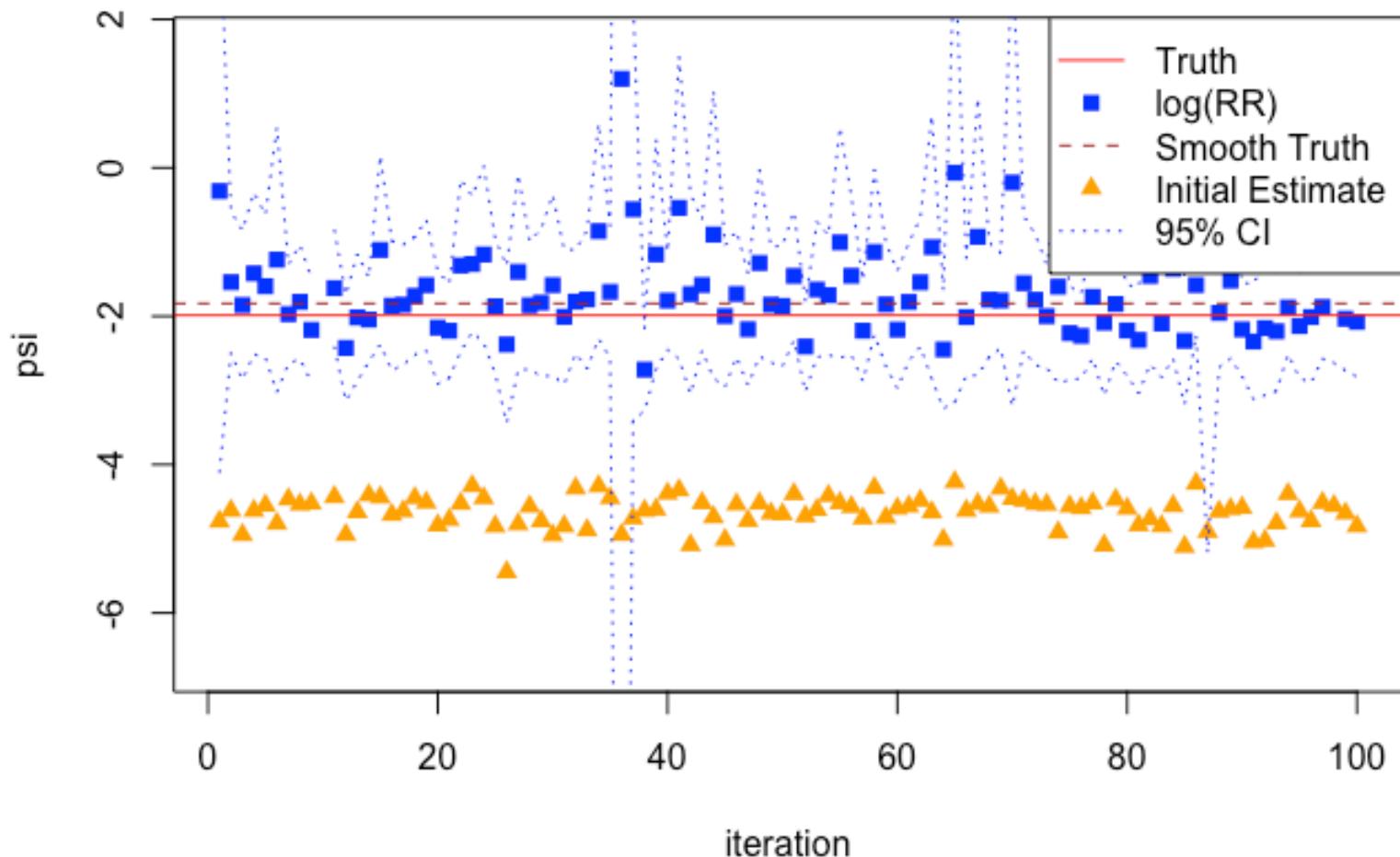
s1=0 Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=0.5



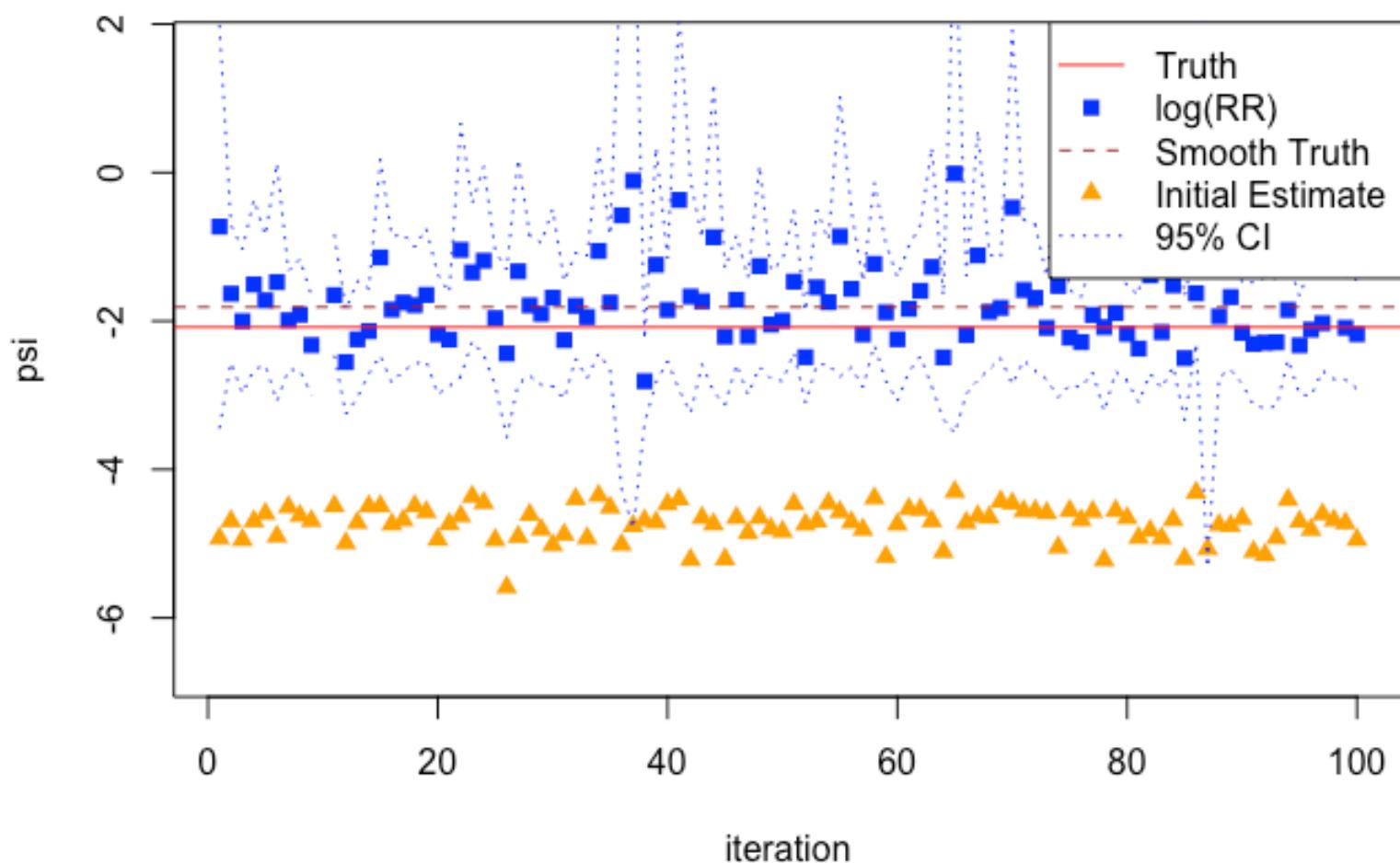
s1=0.1 Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=0.5



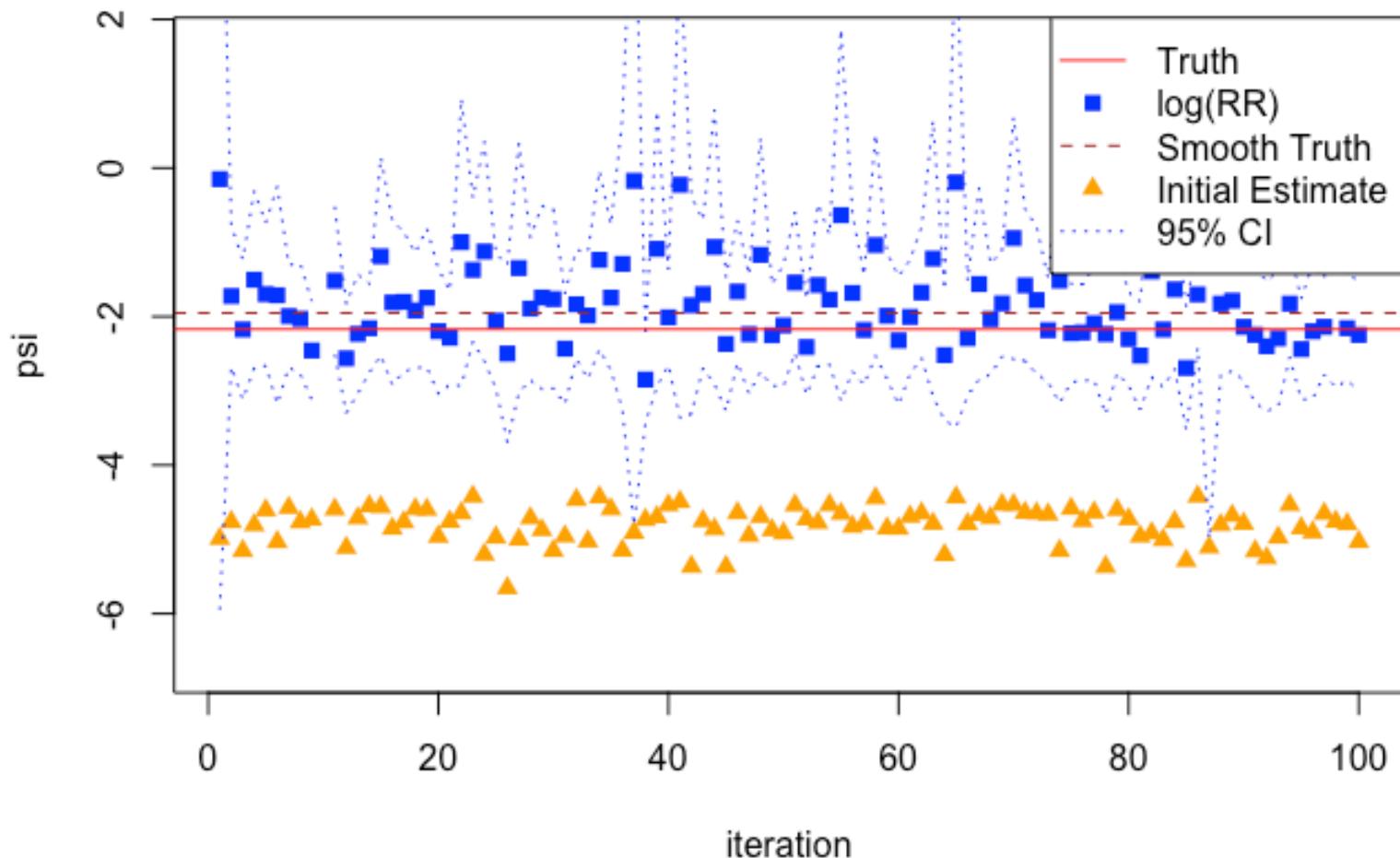
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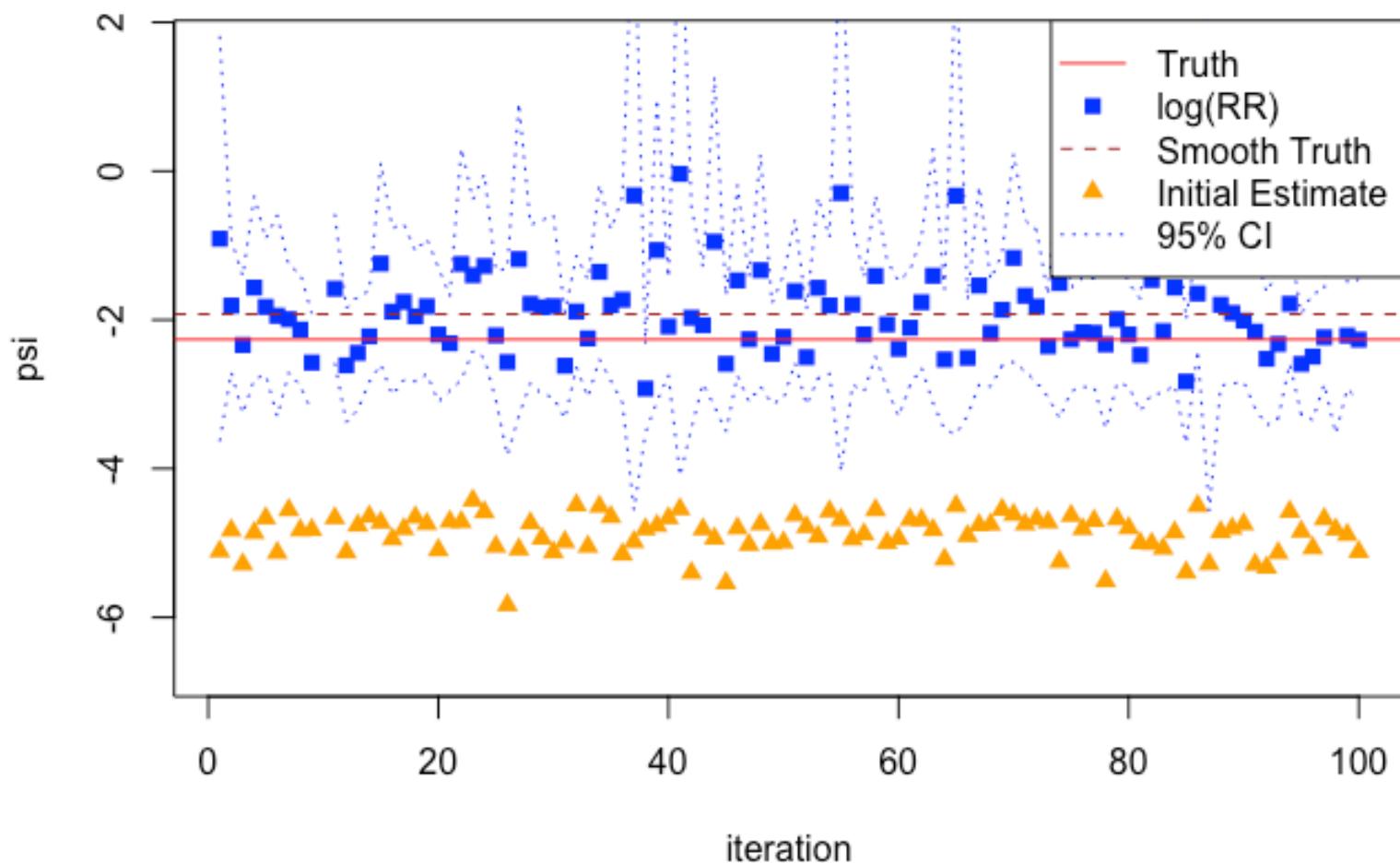
$s_1=0.3$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=0.5



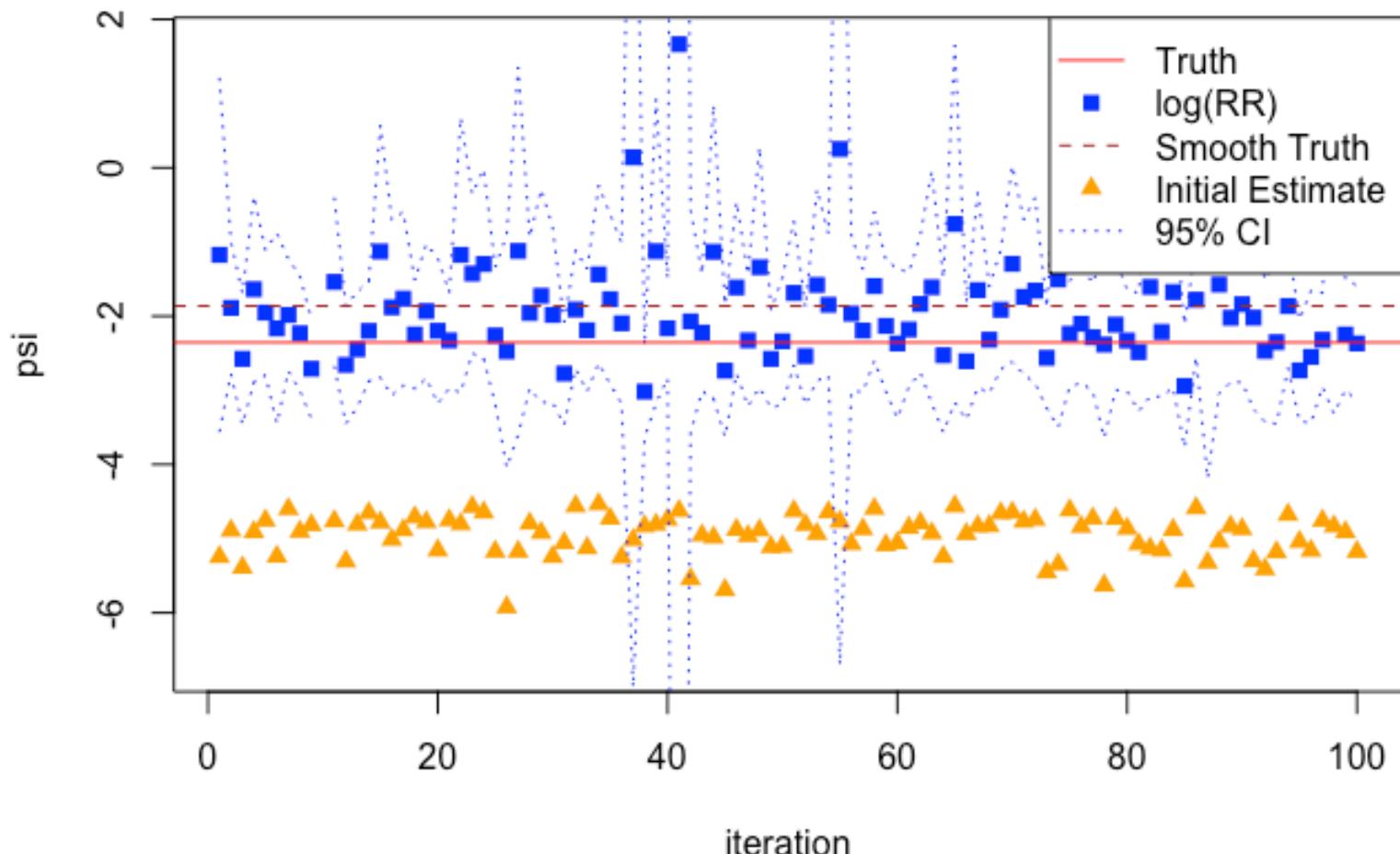
$s_1=0.4$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=0.5



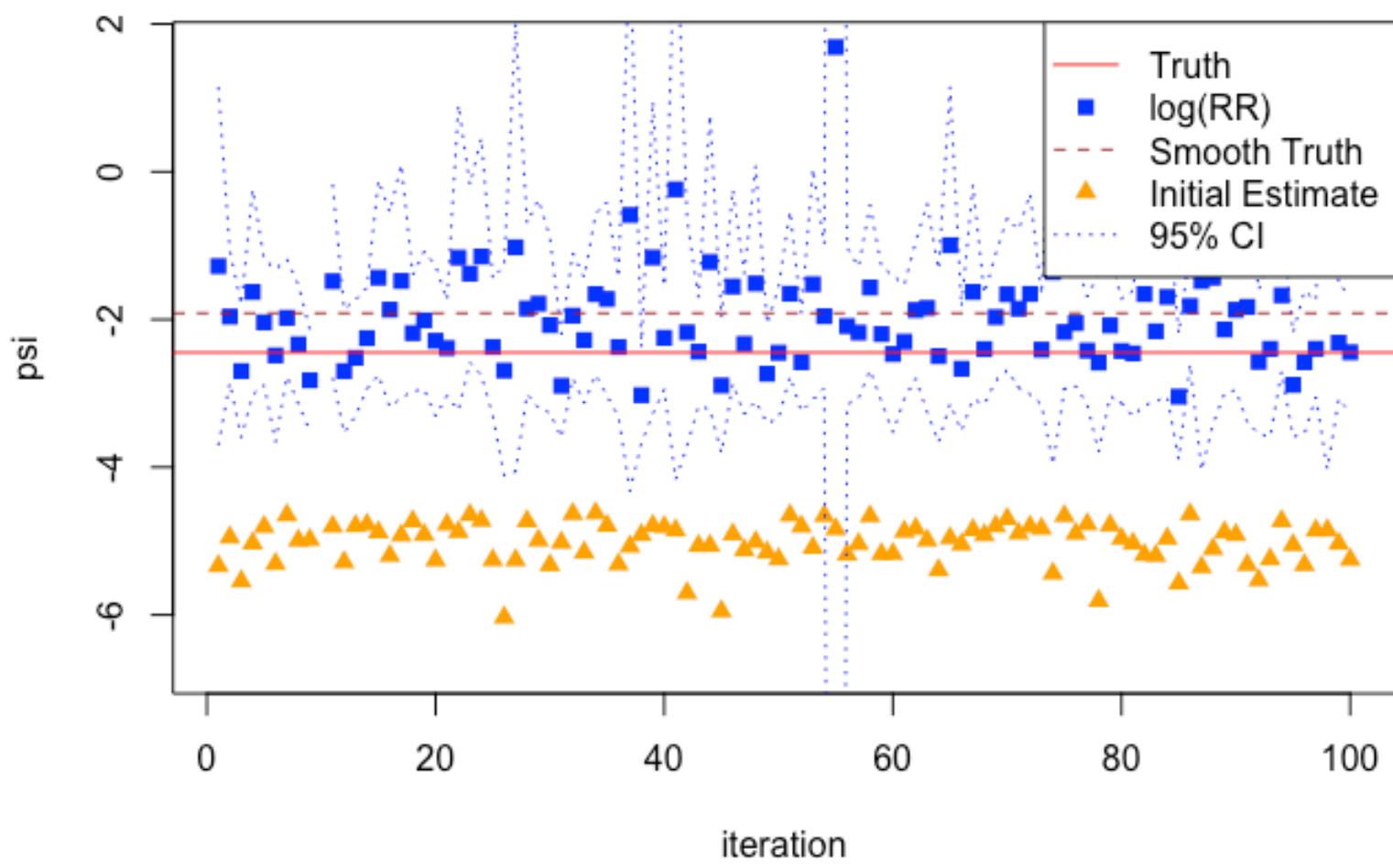
$s_1=0.5$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=0.5



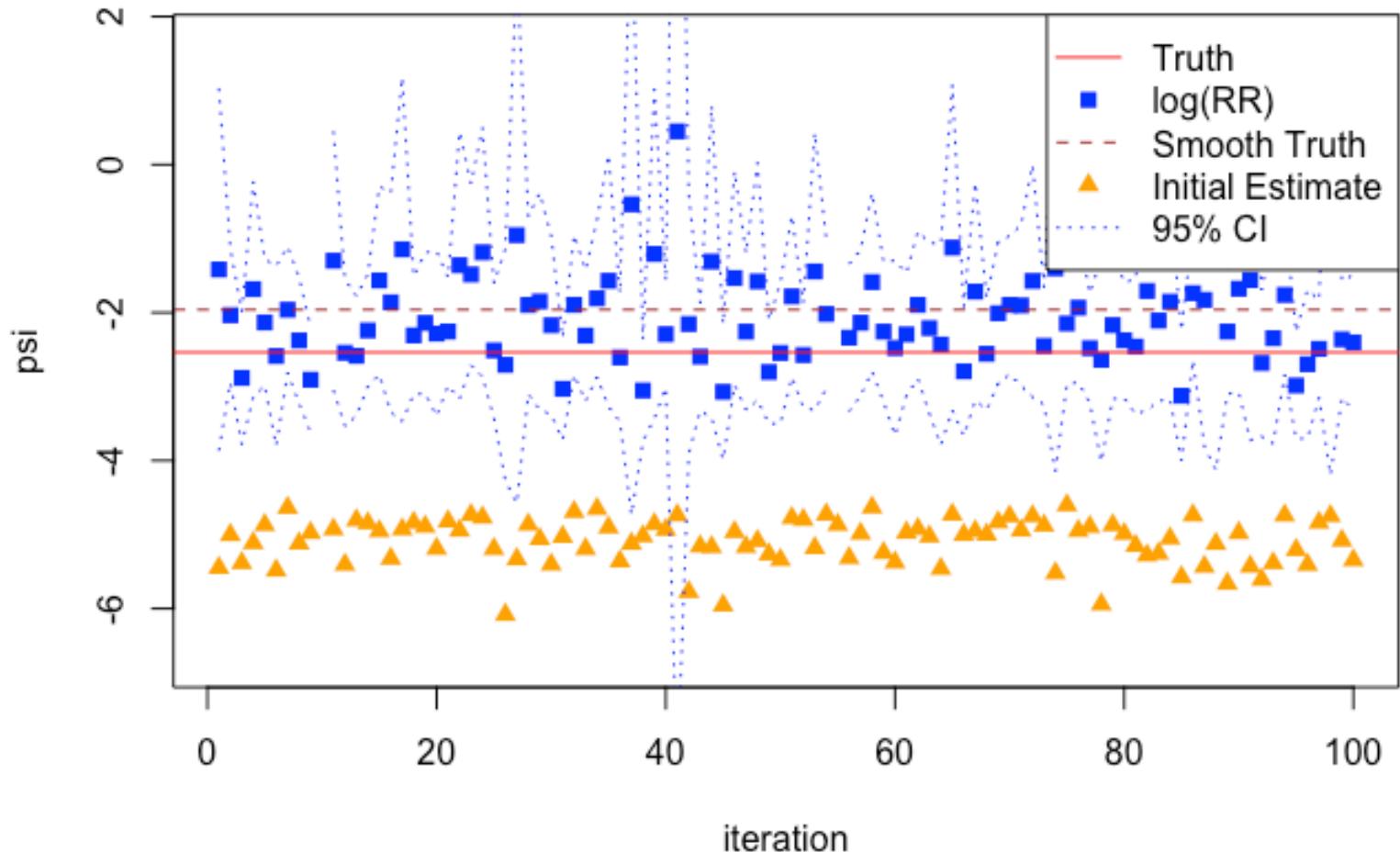
$s_1=0.6$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=0.5



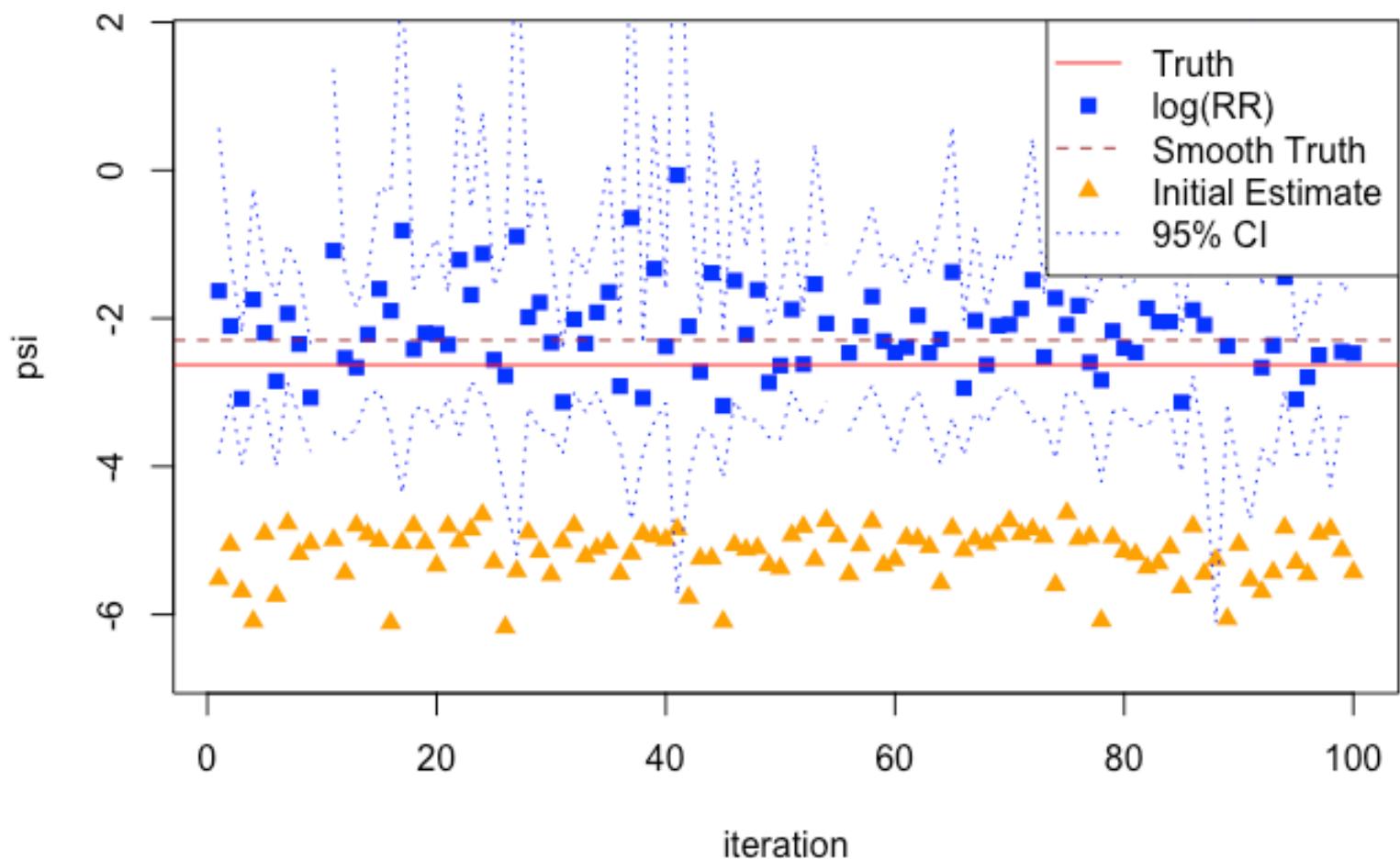
$s_1=0.7$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=0.5



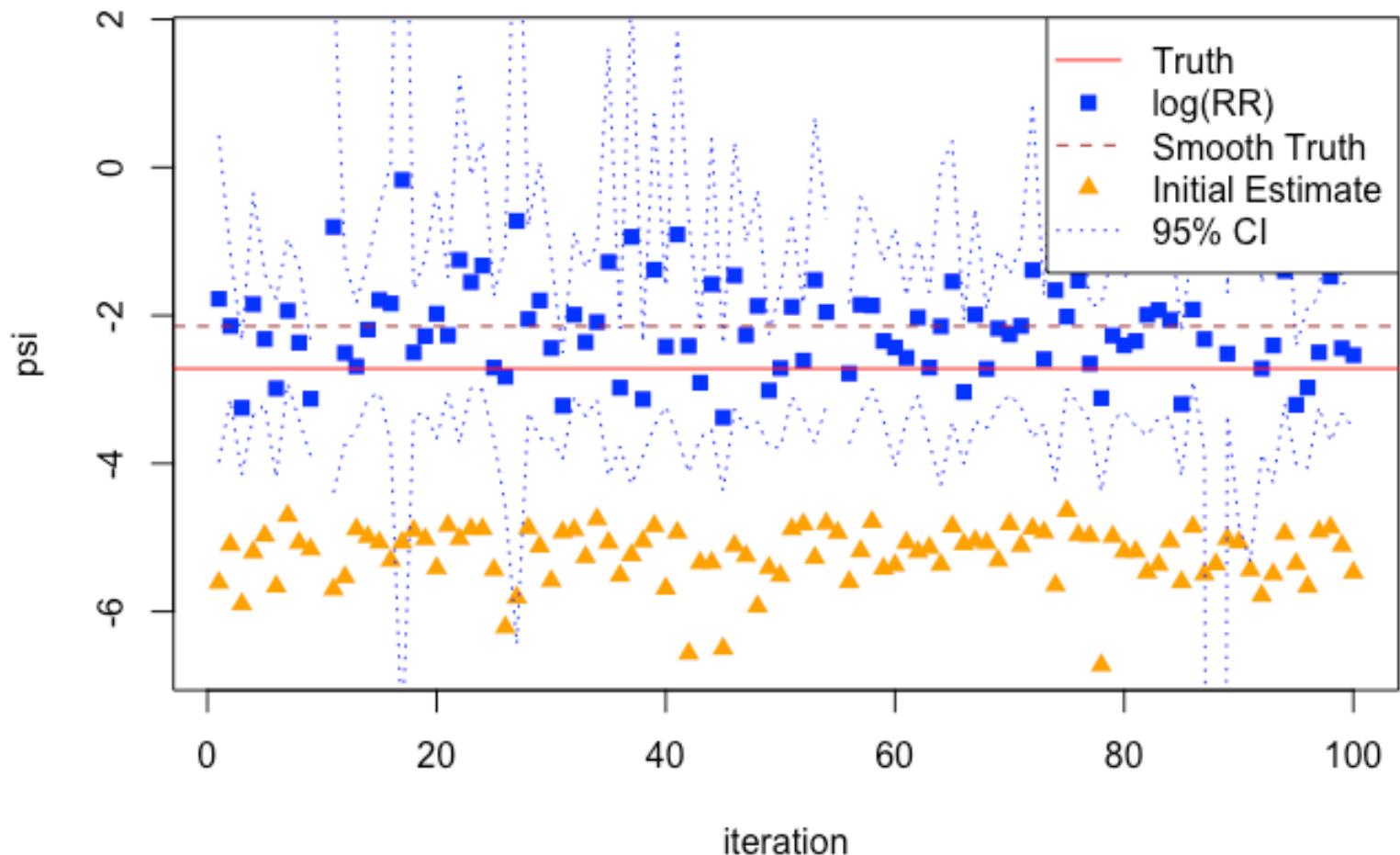
$s_1=0.8$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=0.5



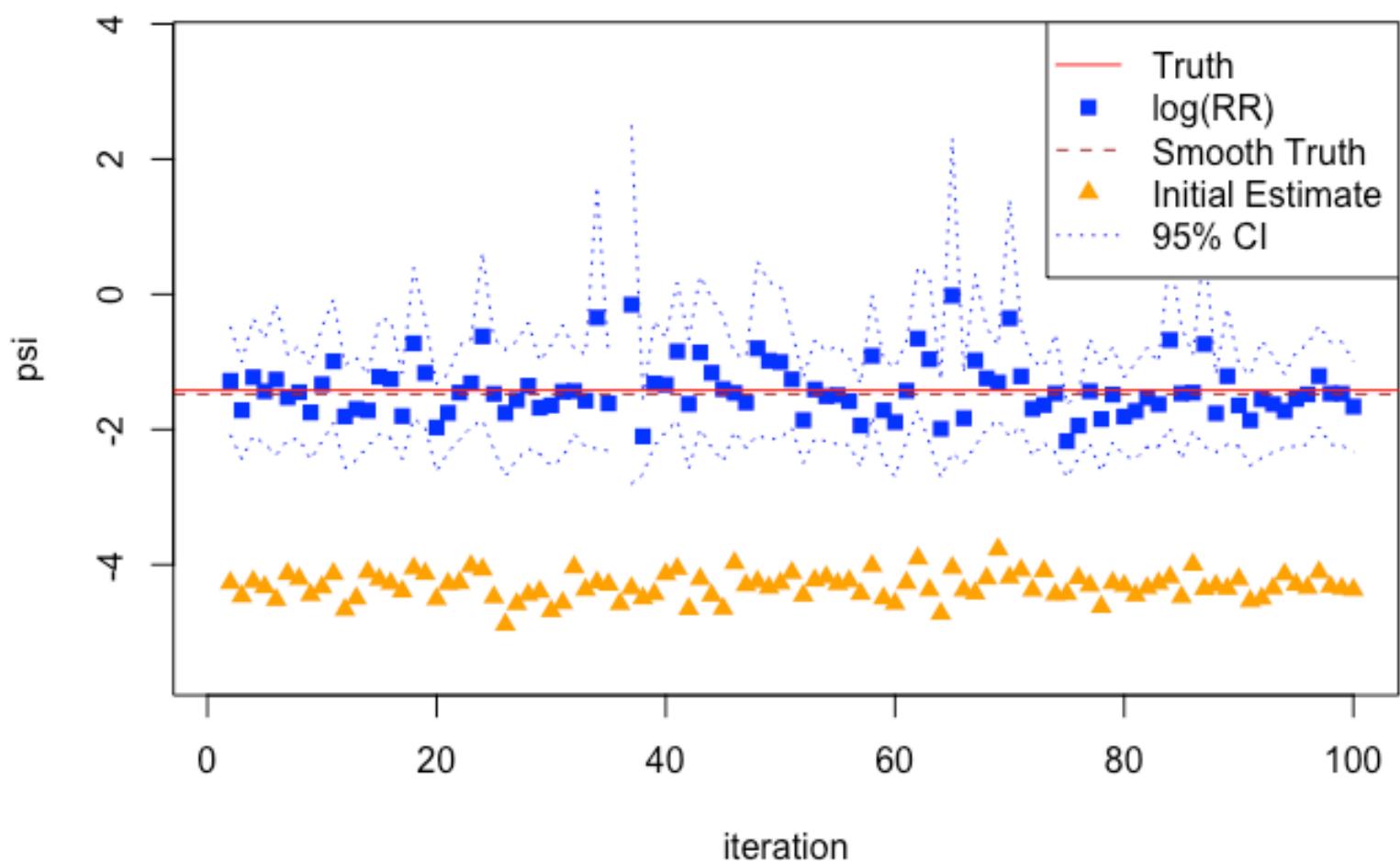
$s_1=0.9$ Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=0.5



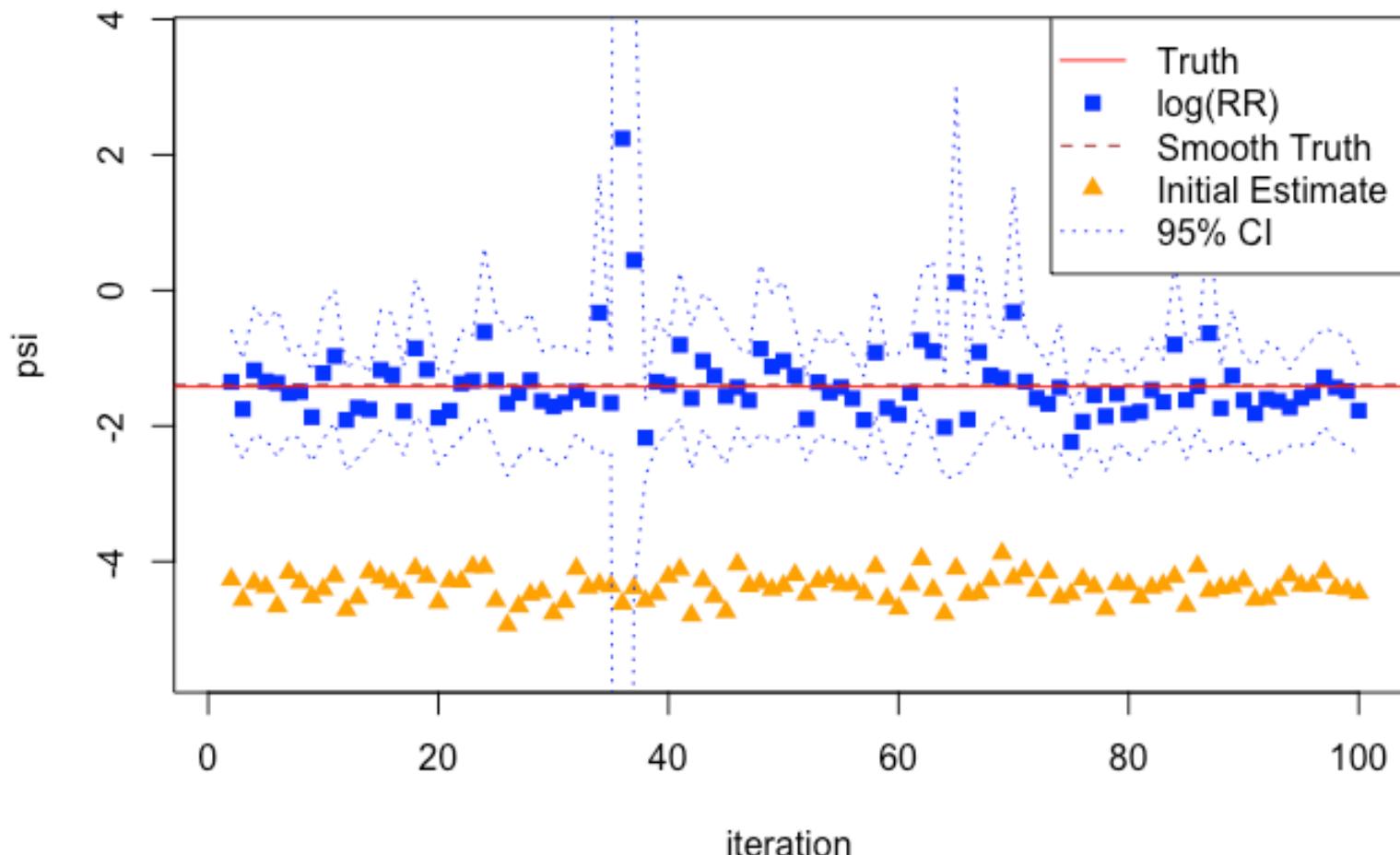
s1=1 Alternative case for $\text{cor}(S1, W) = 0.75$, crossover rate=1, sample rate=0.5



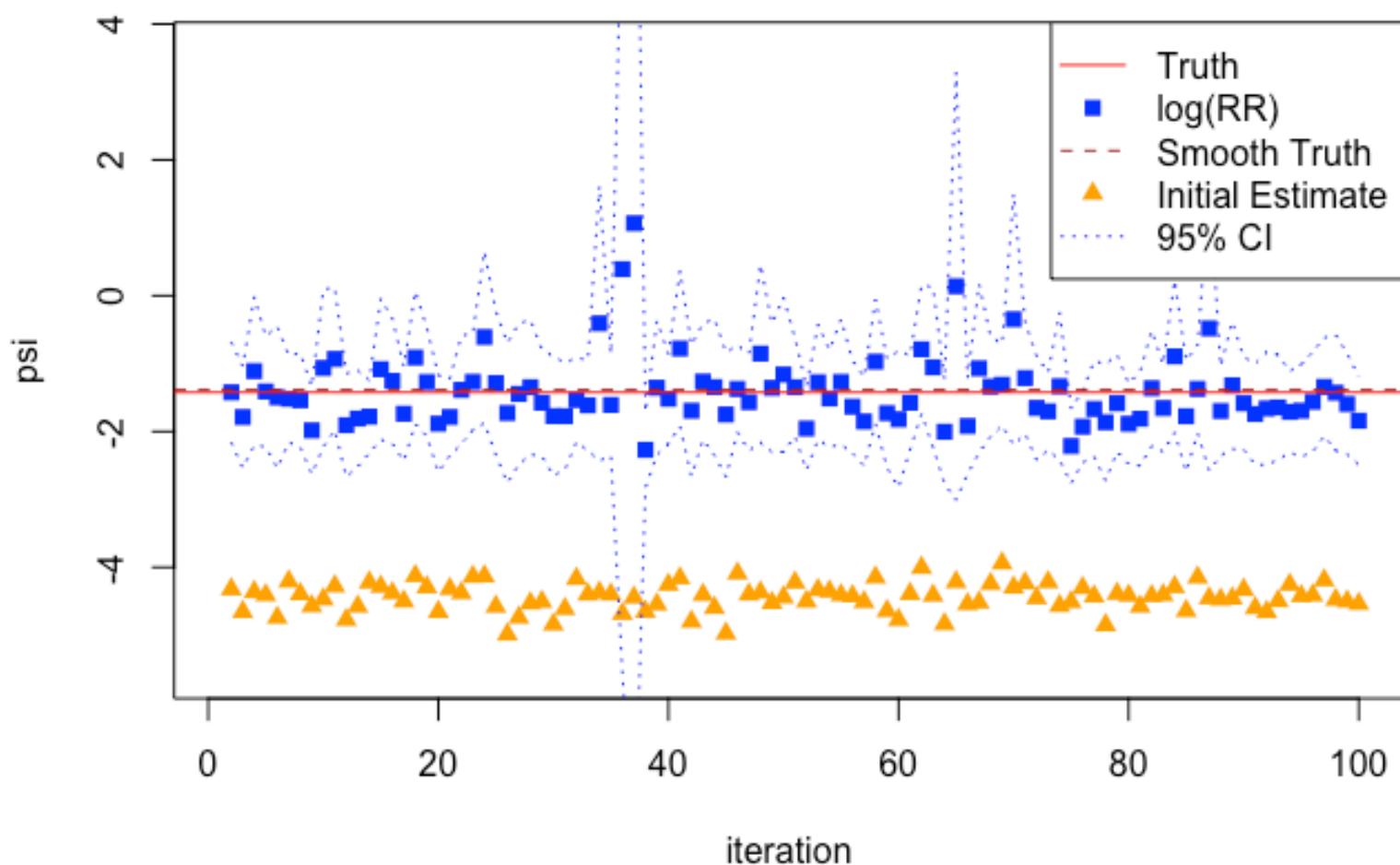
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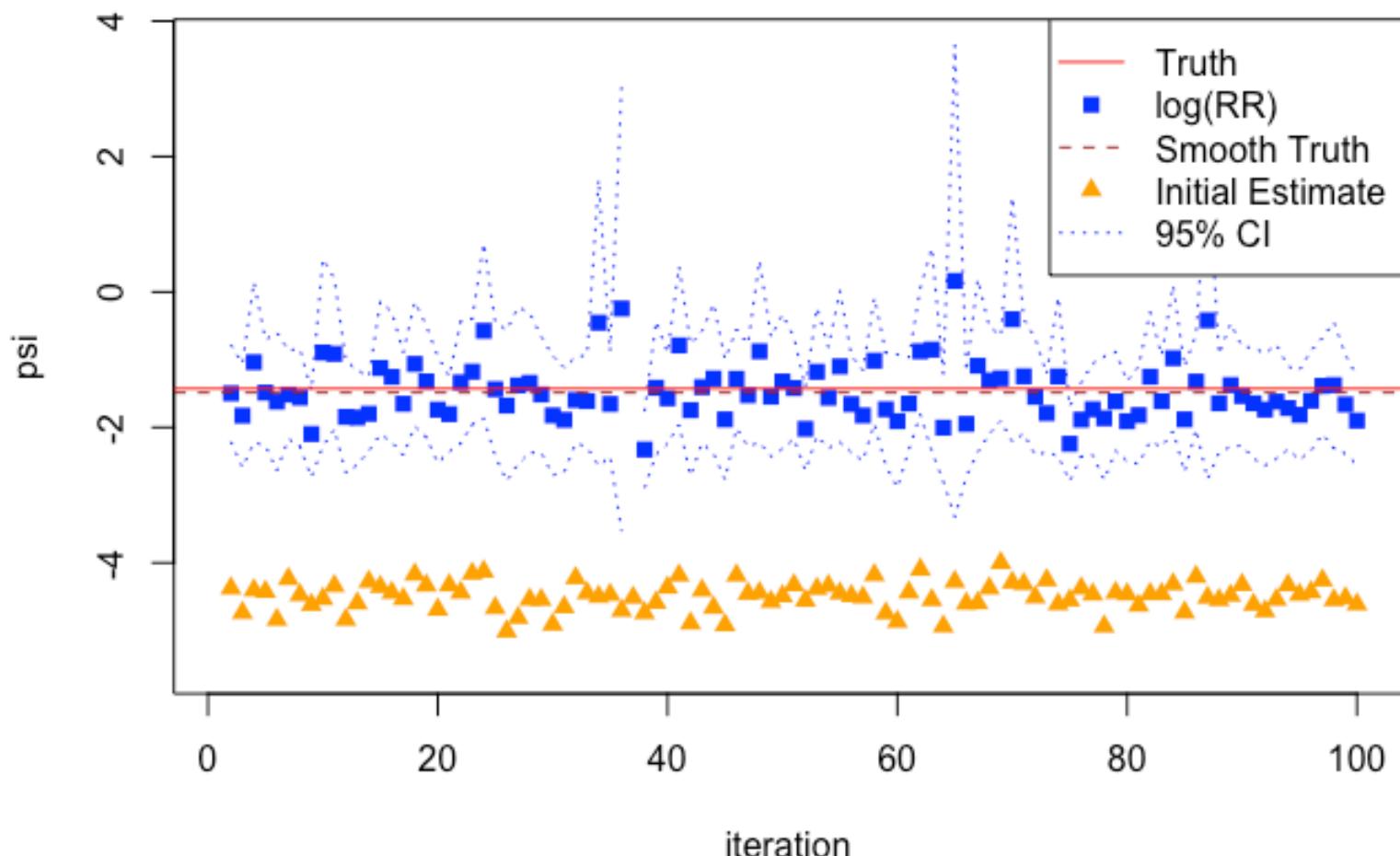
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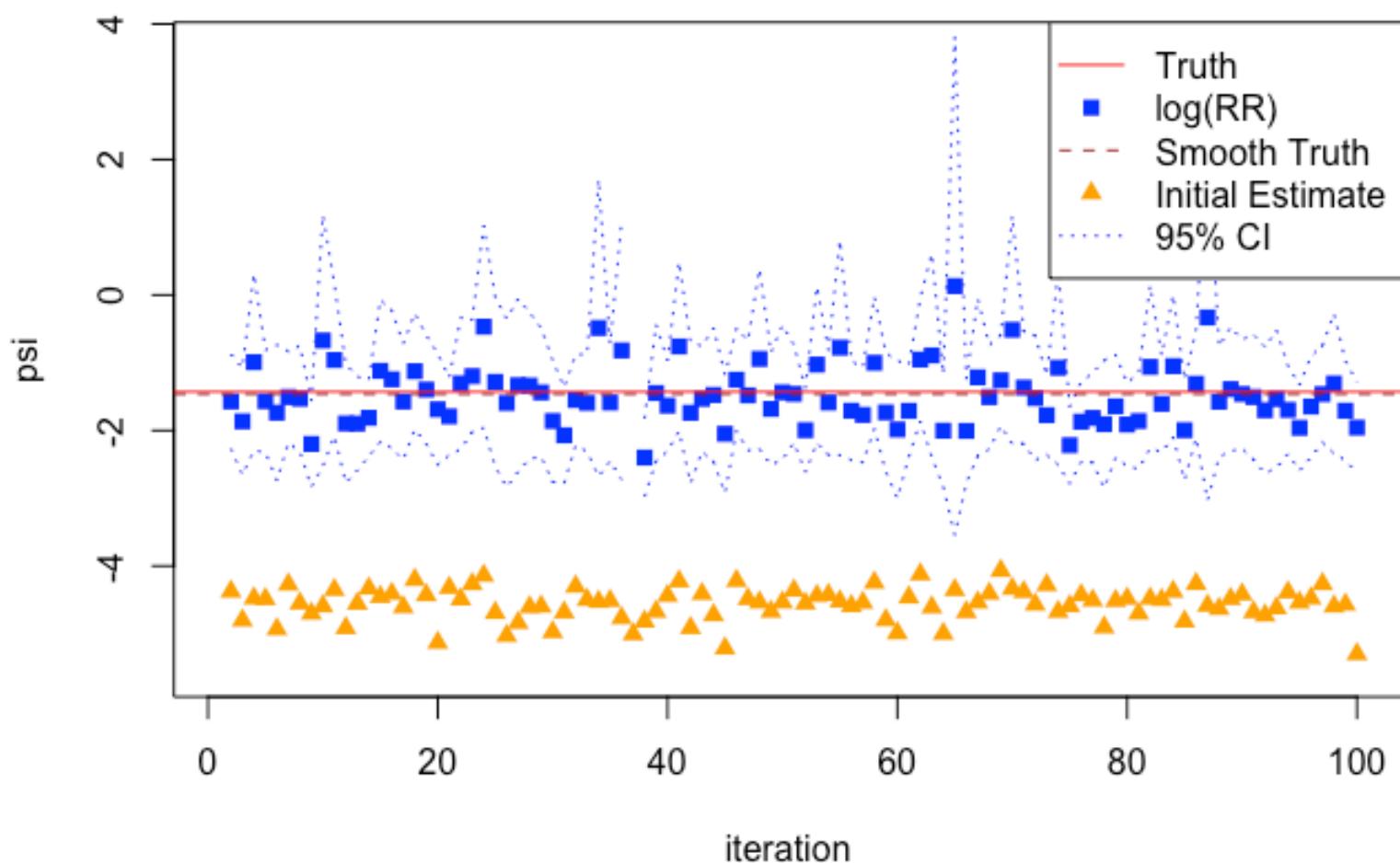
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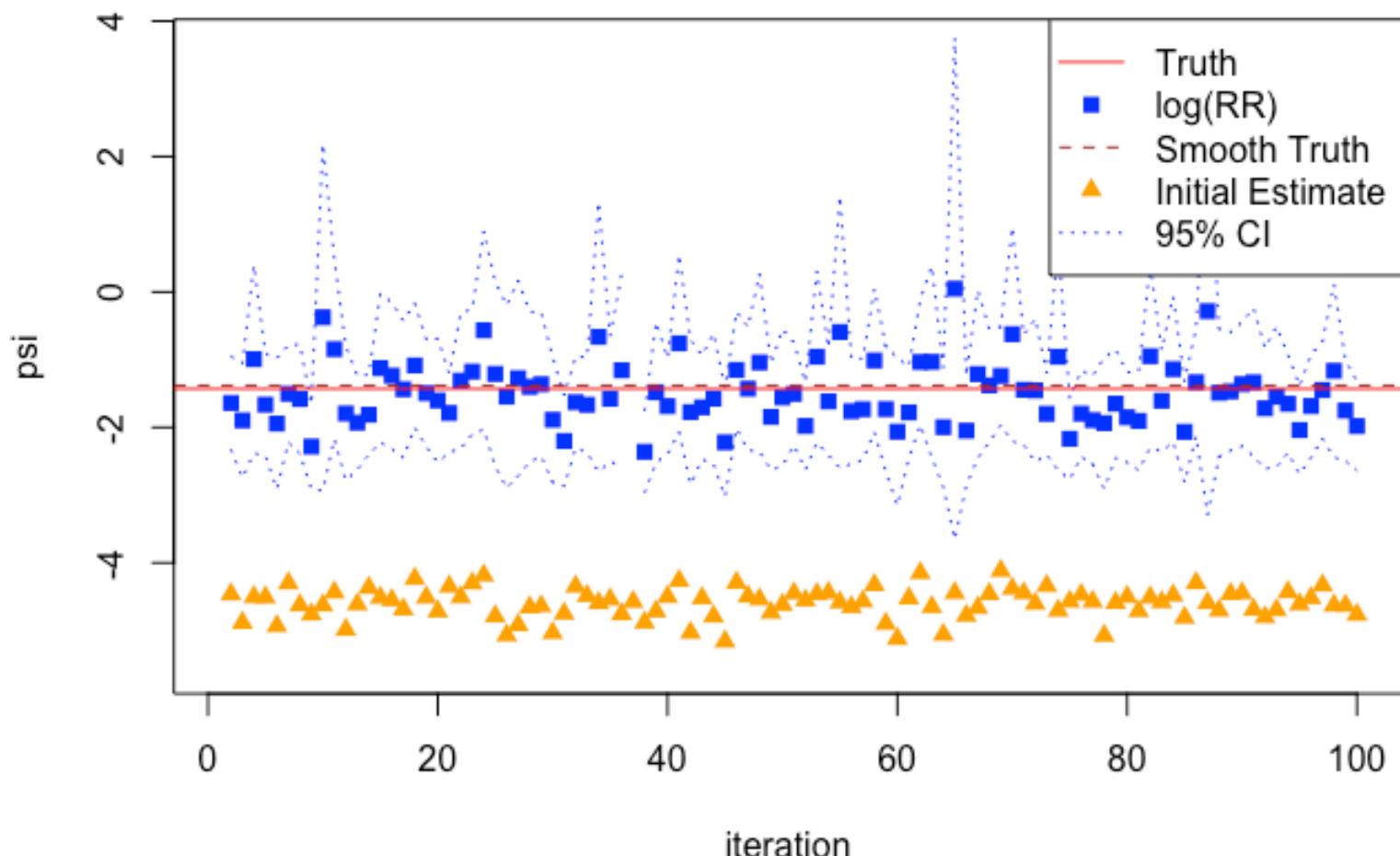
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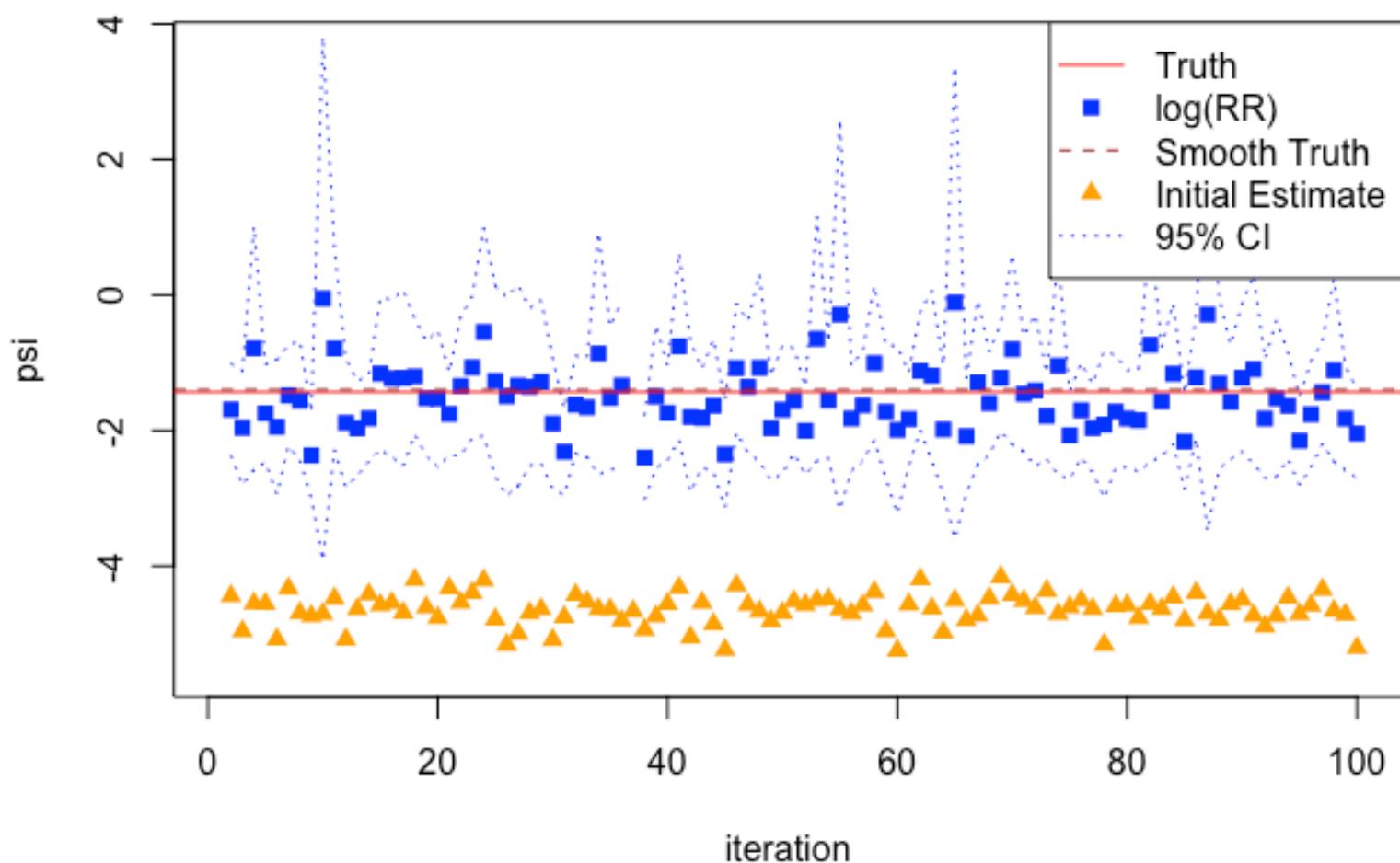
$s_1=0.4$ Null case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=1



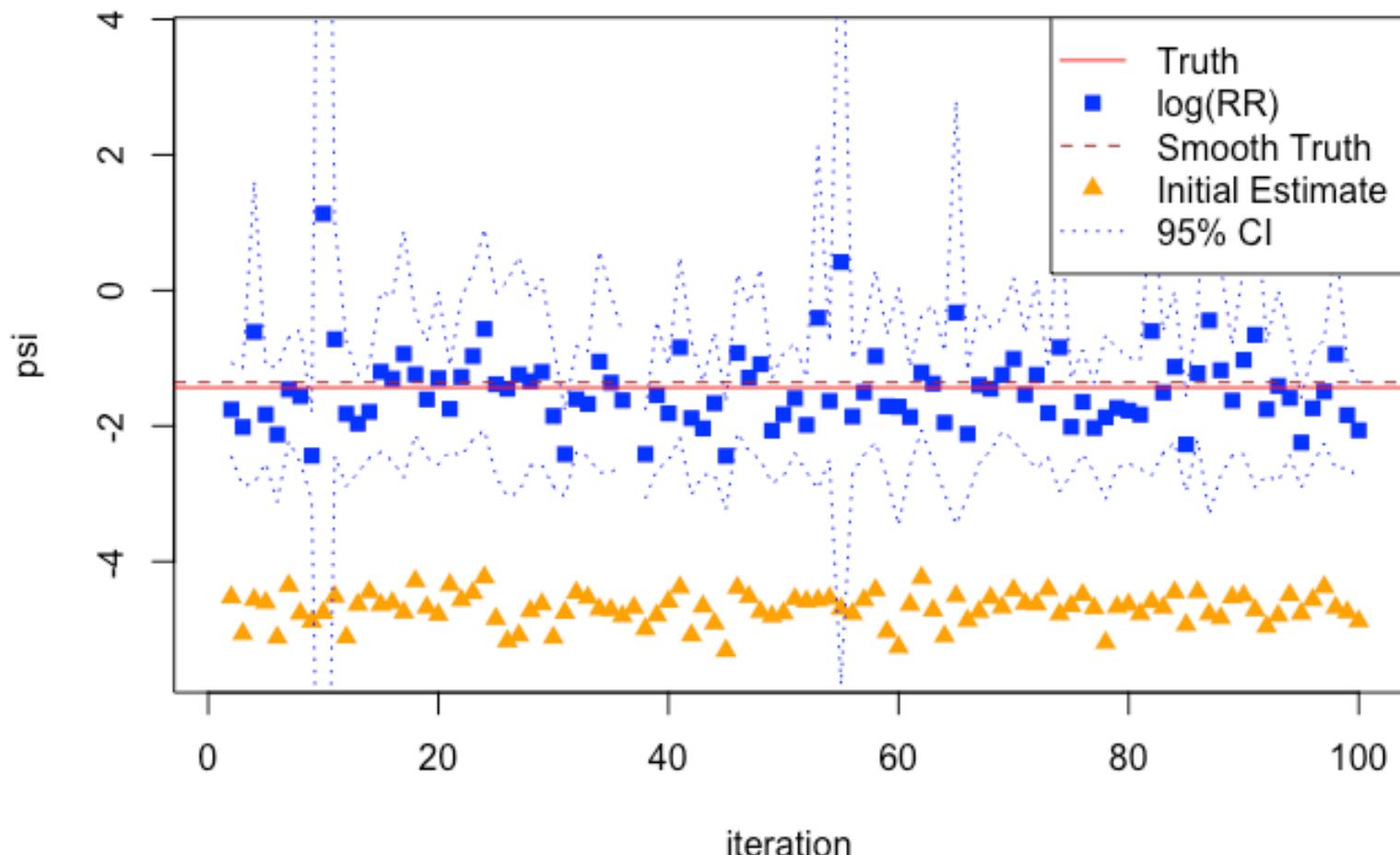
$s_1=0.5$ Null case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=1



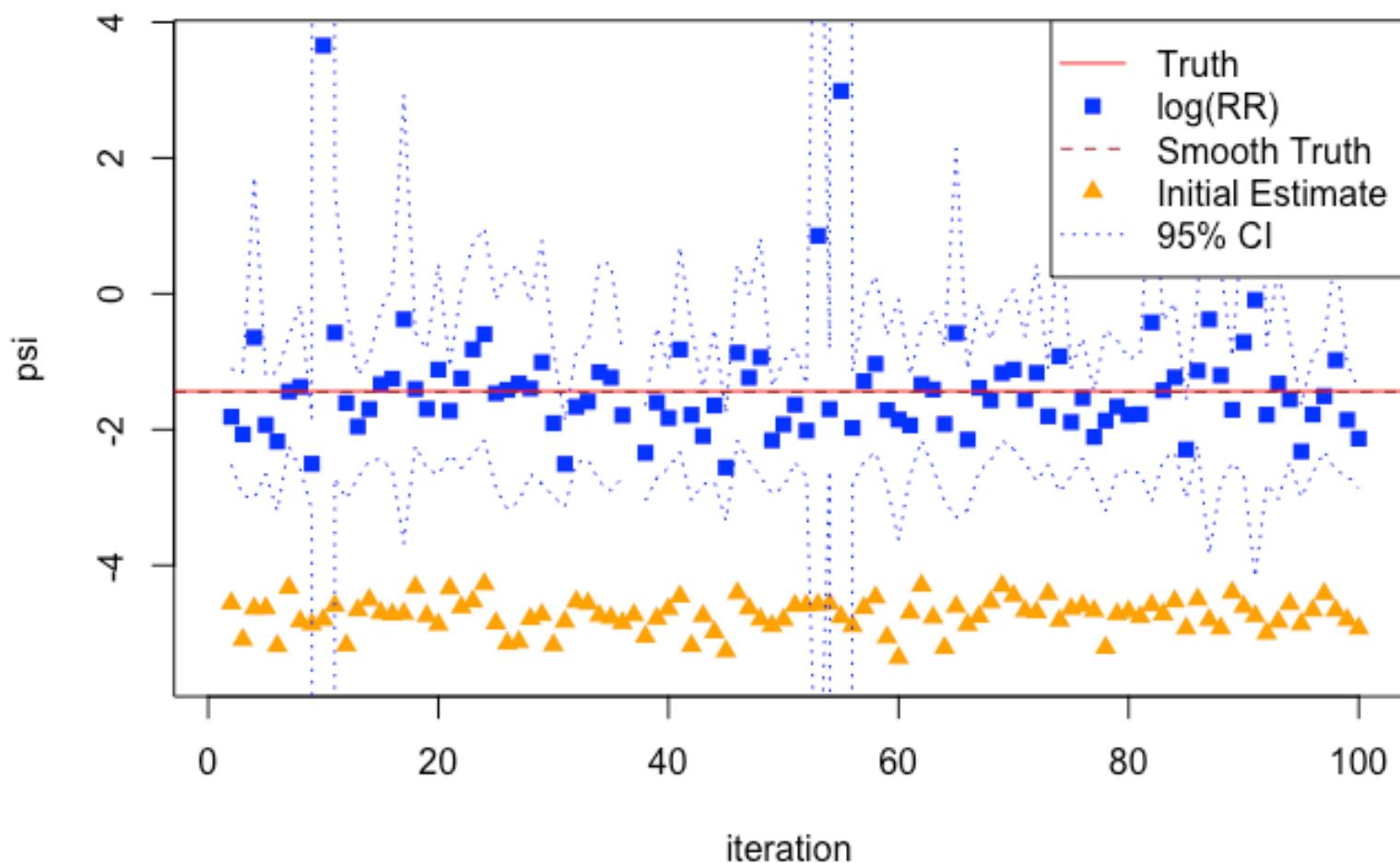
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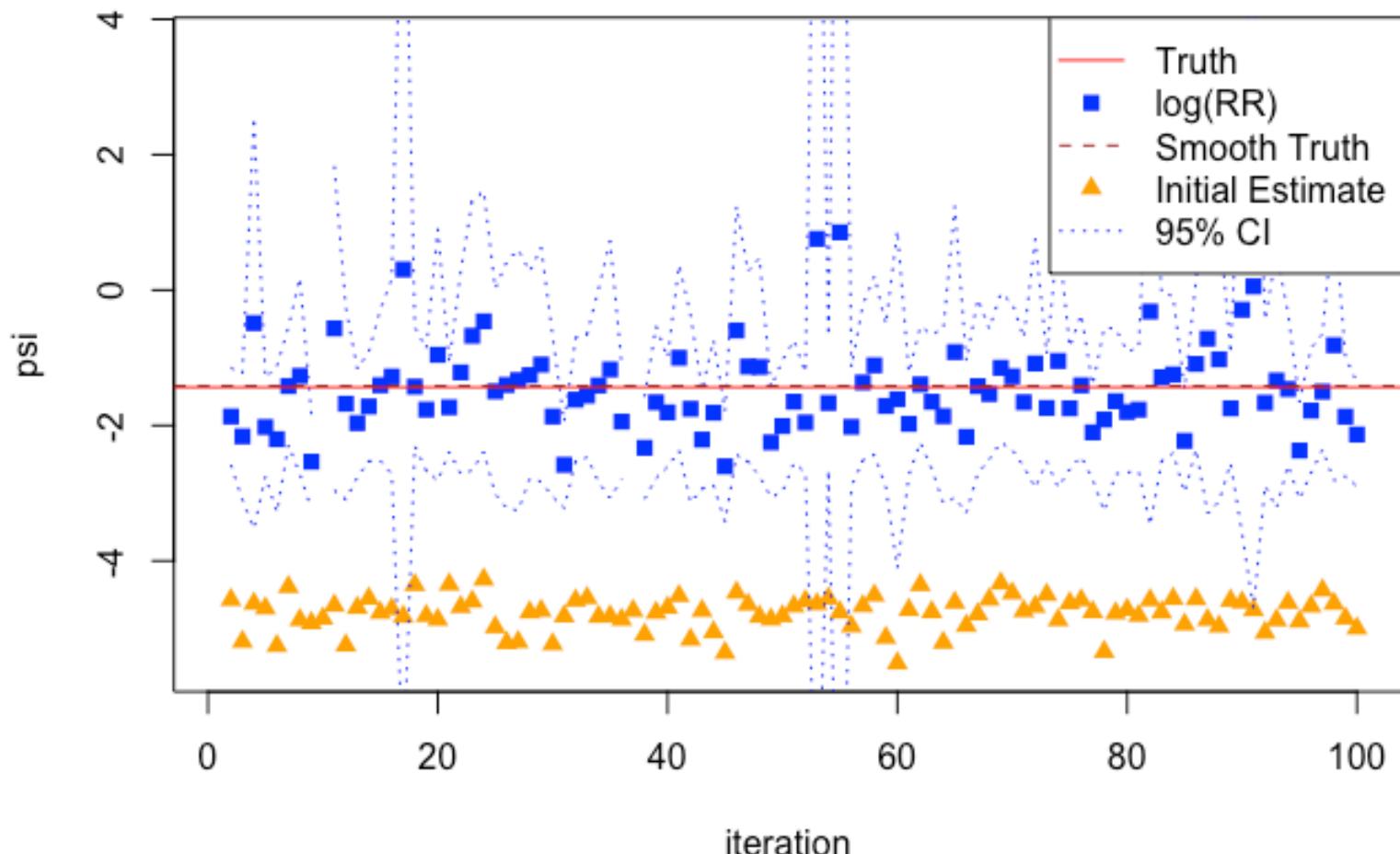
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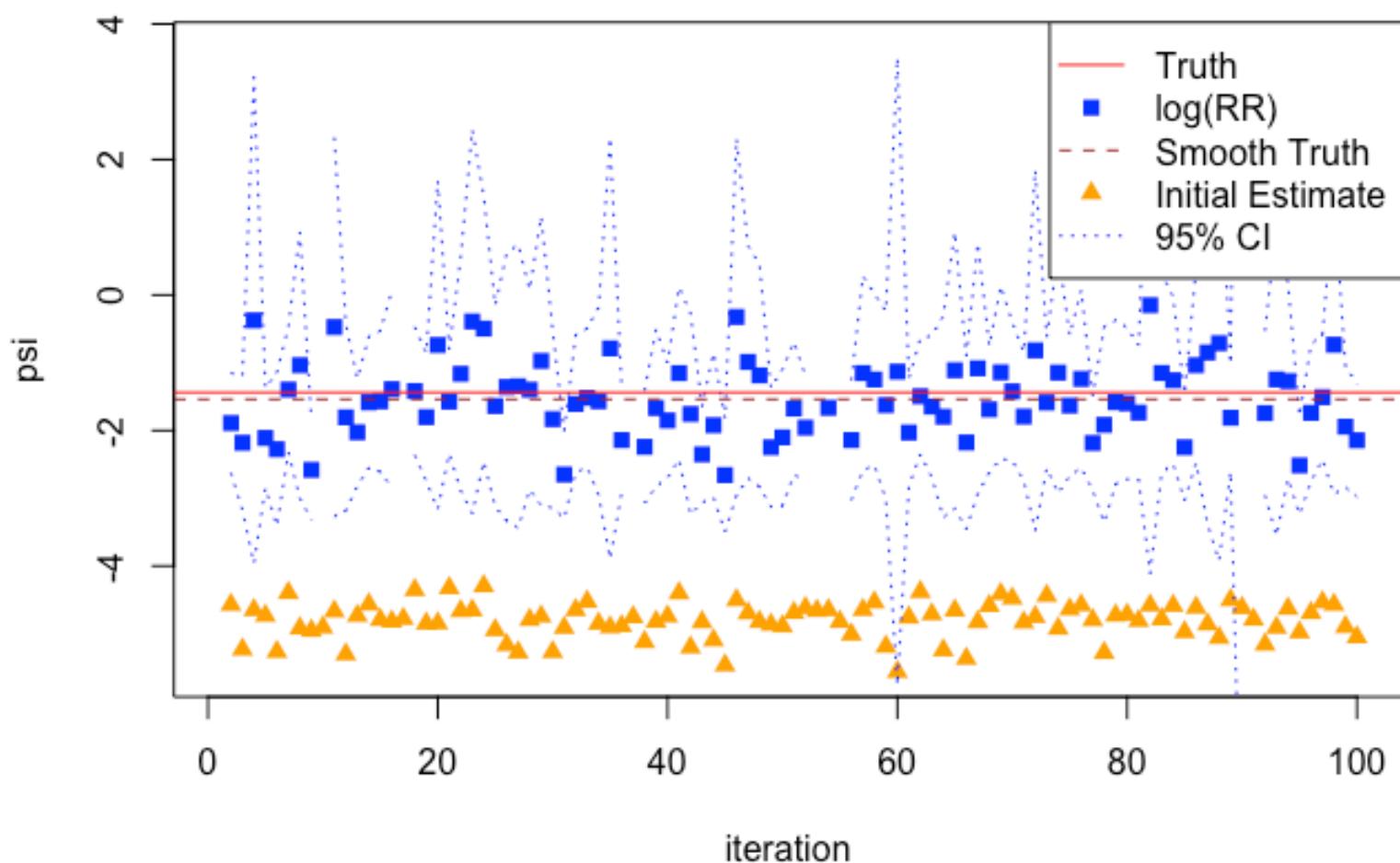
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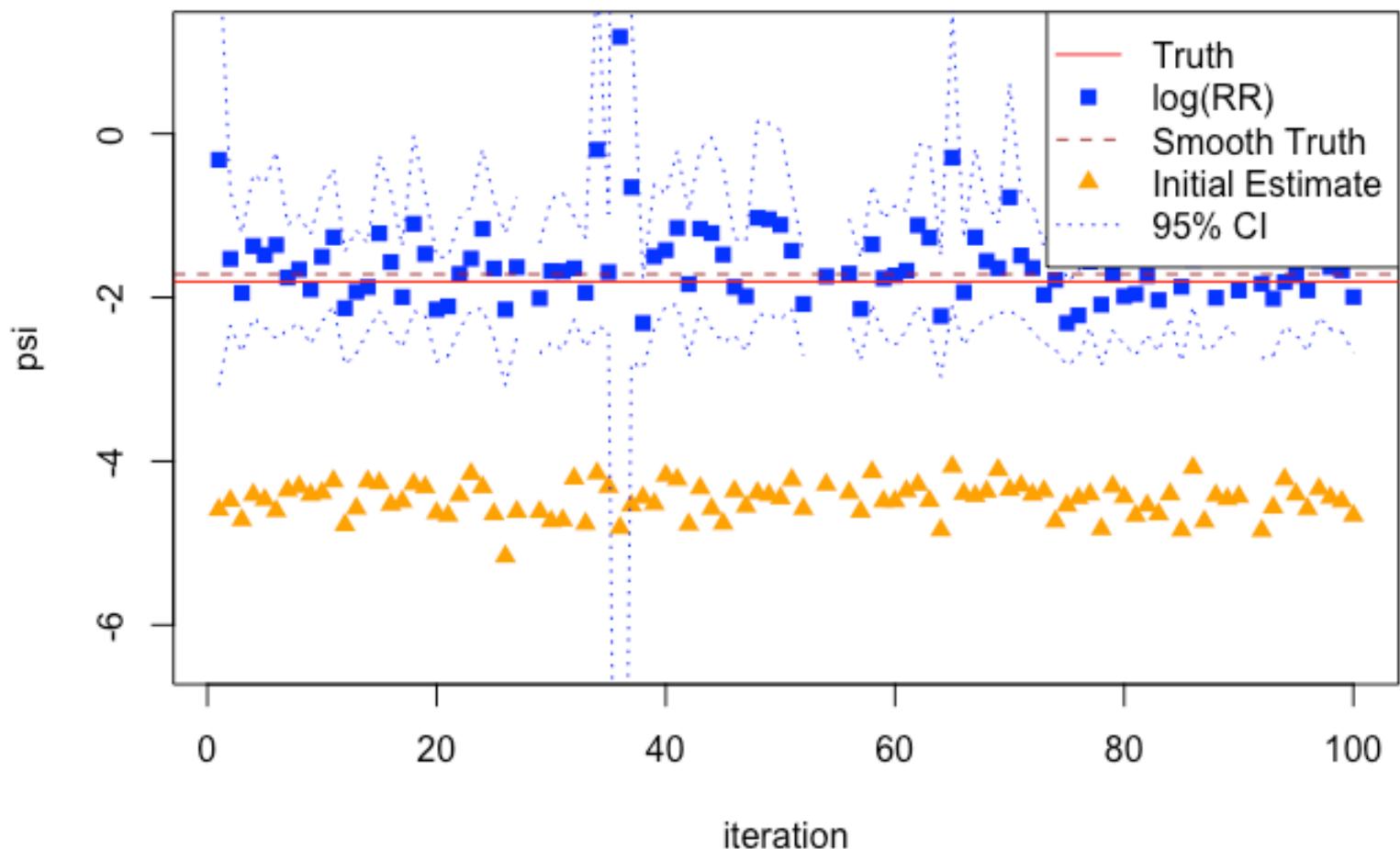
$s_1=0.9$ Null case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=1



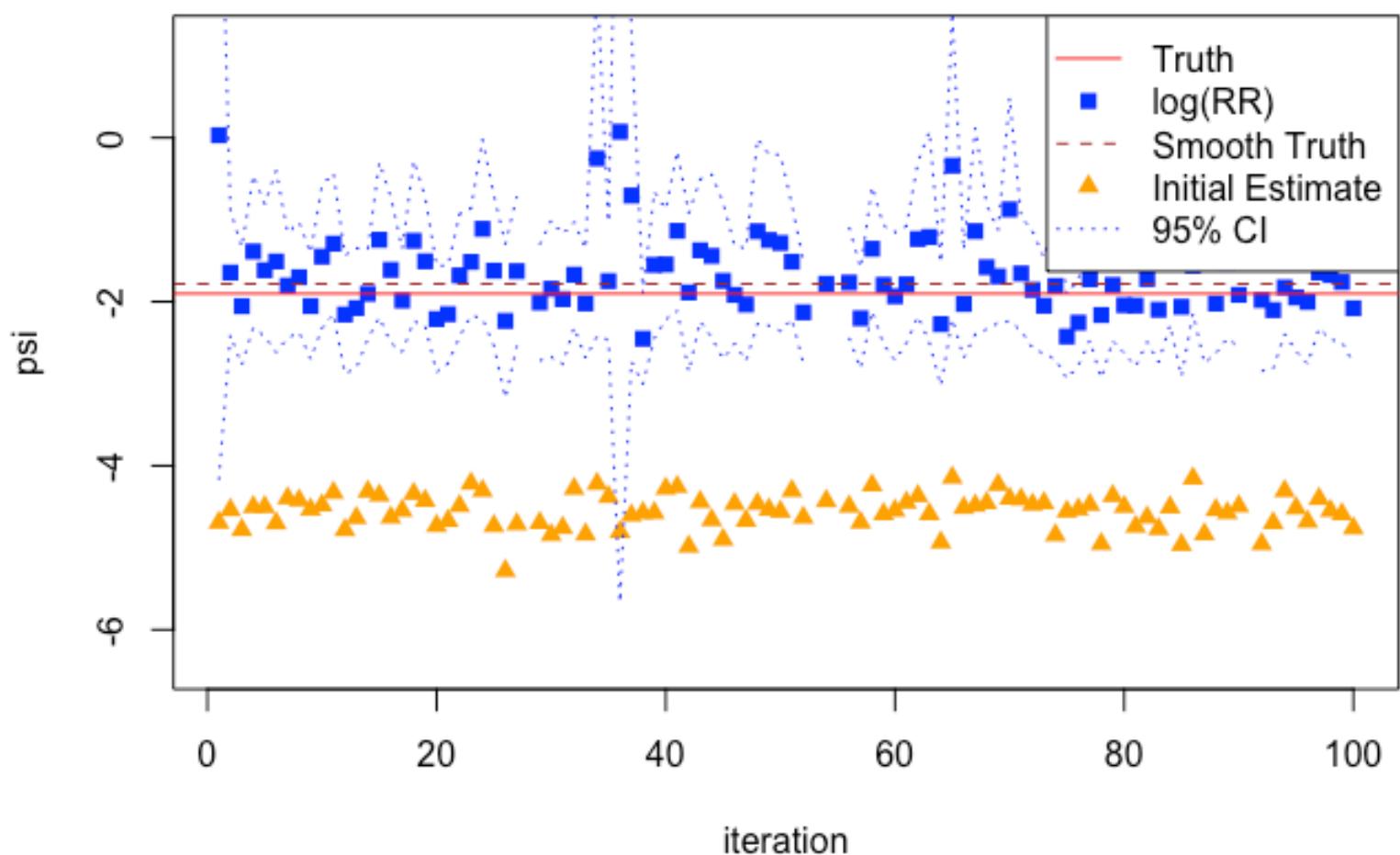
$s_1=1$ Null case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=1



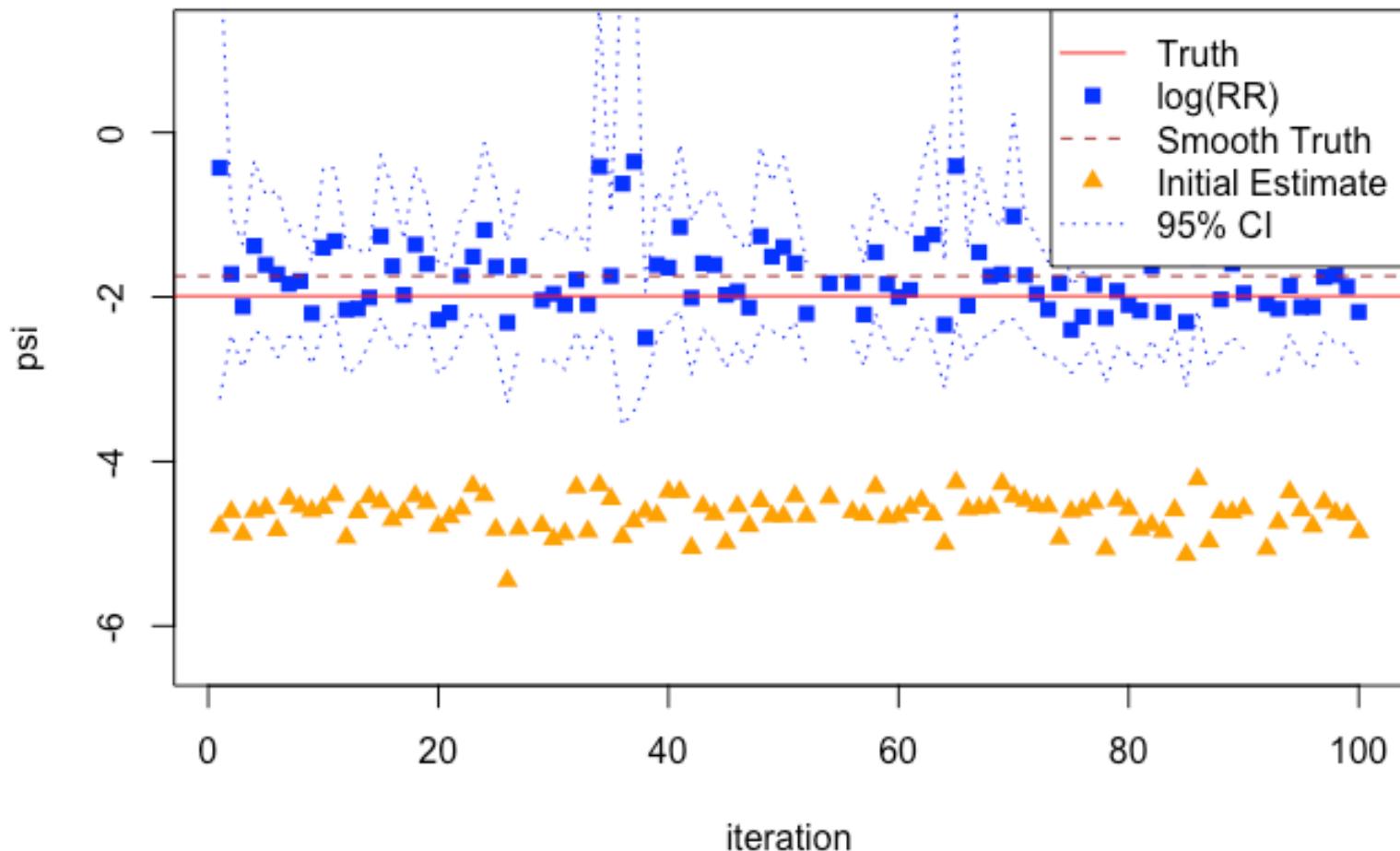
s1=0 Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=1



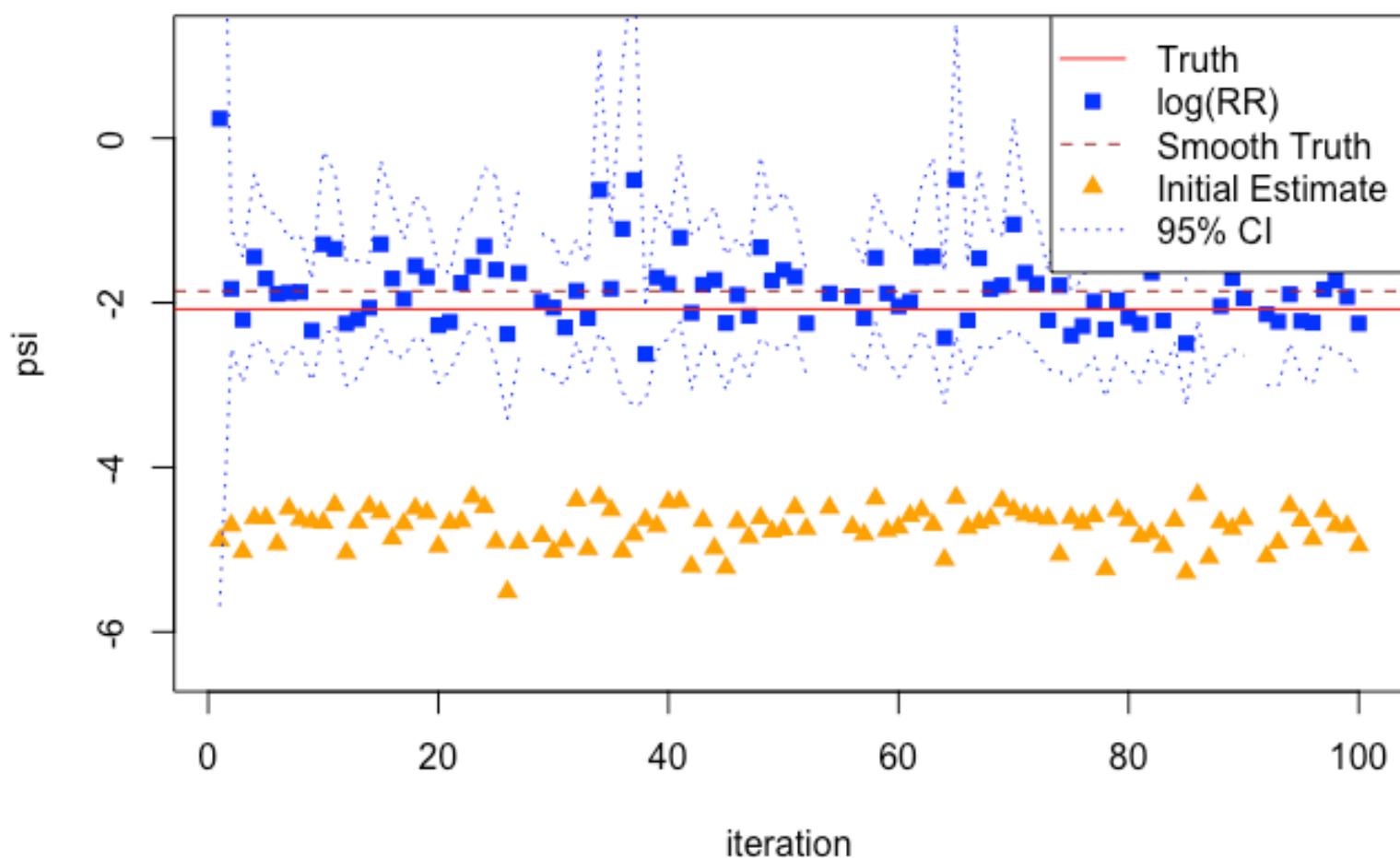
s1=0.1 Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=1



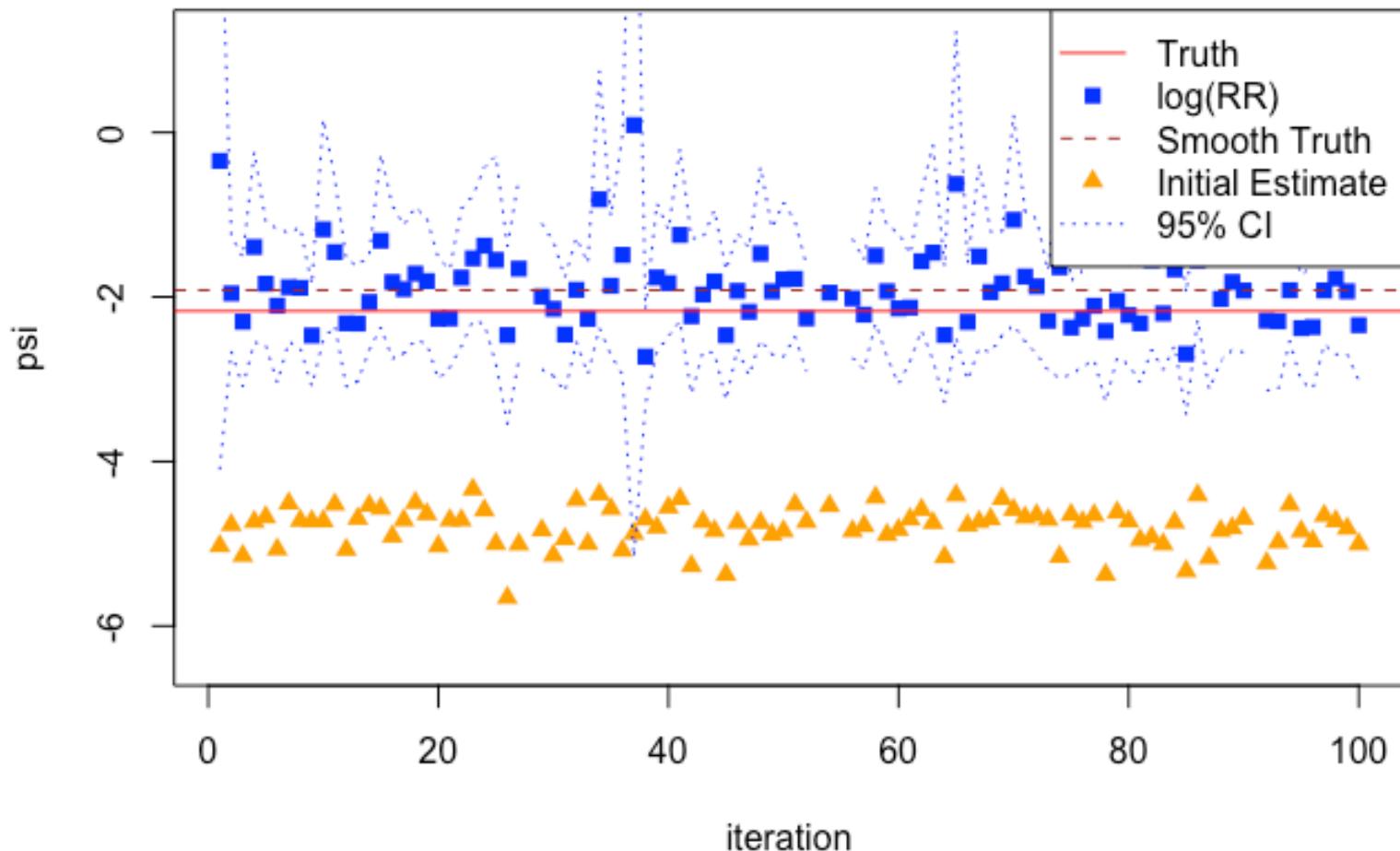
s1=0.2 Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=1



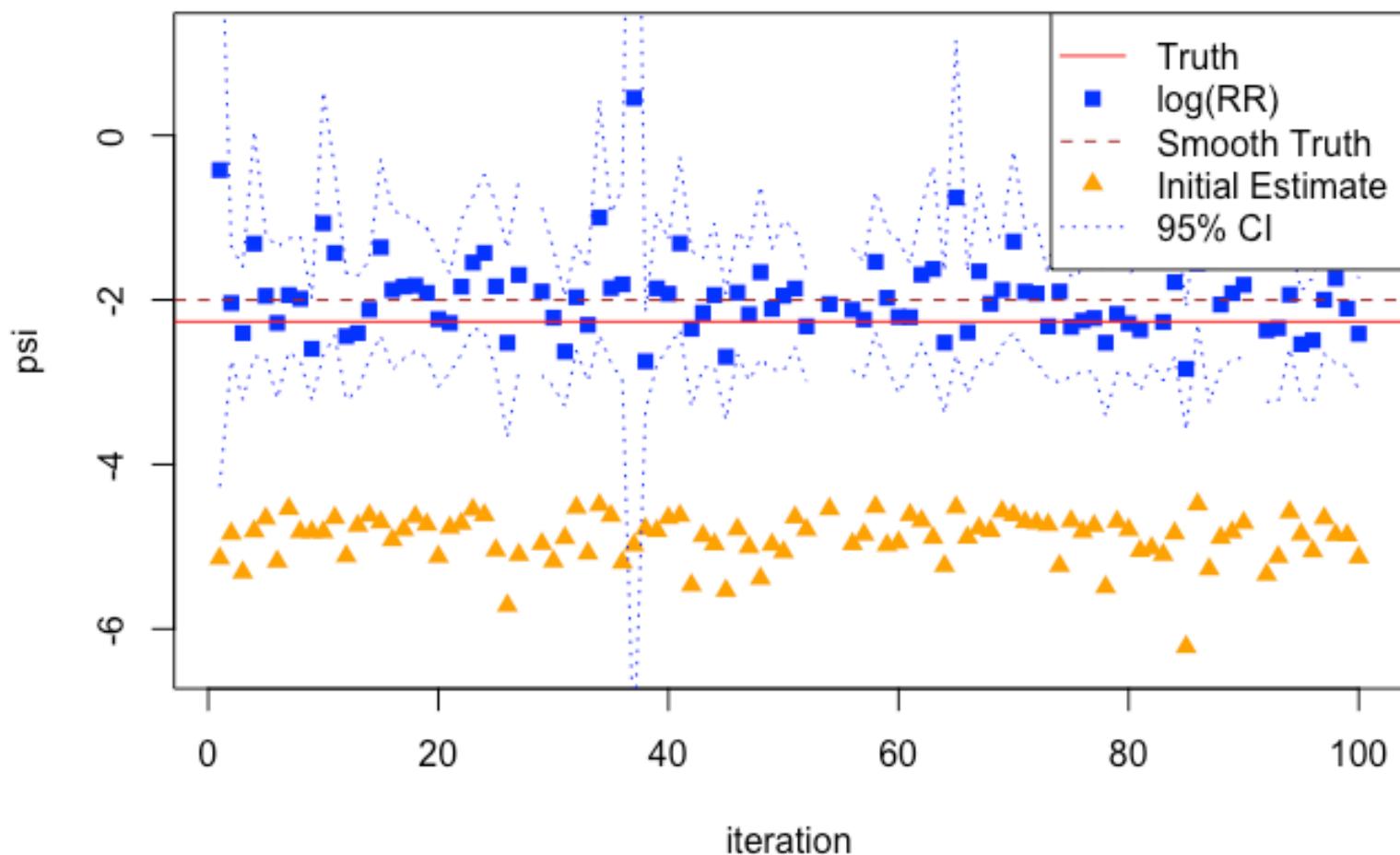
s1=0.3 Alternative case for $\text{cor}(S1,W)=0.75$, crossover rate=1, sample rate=1



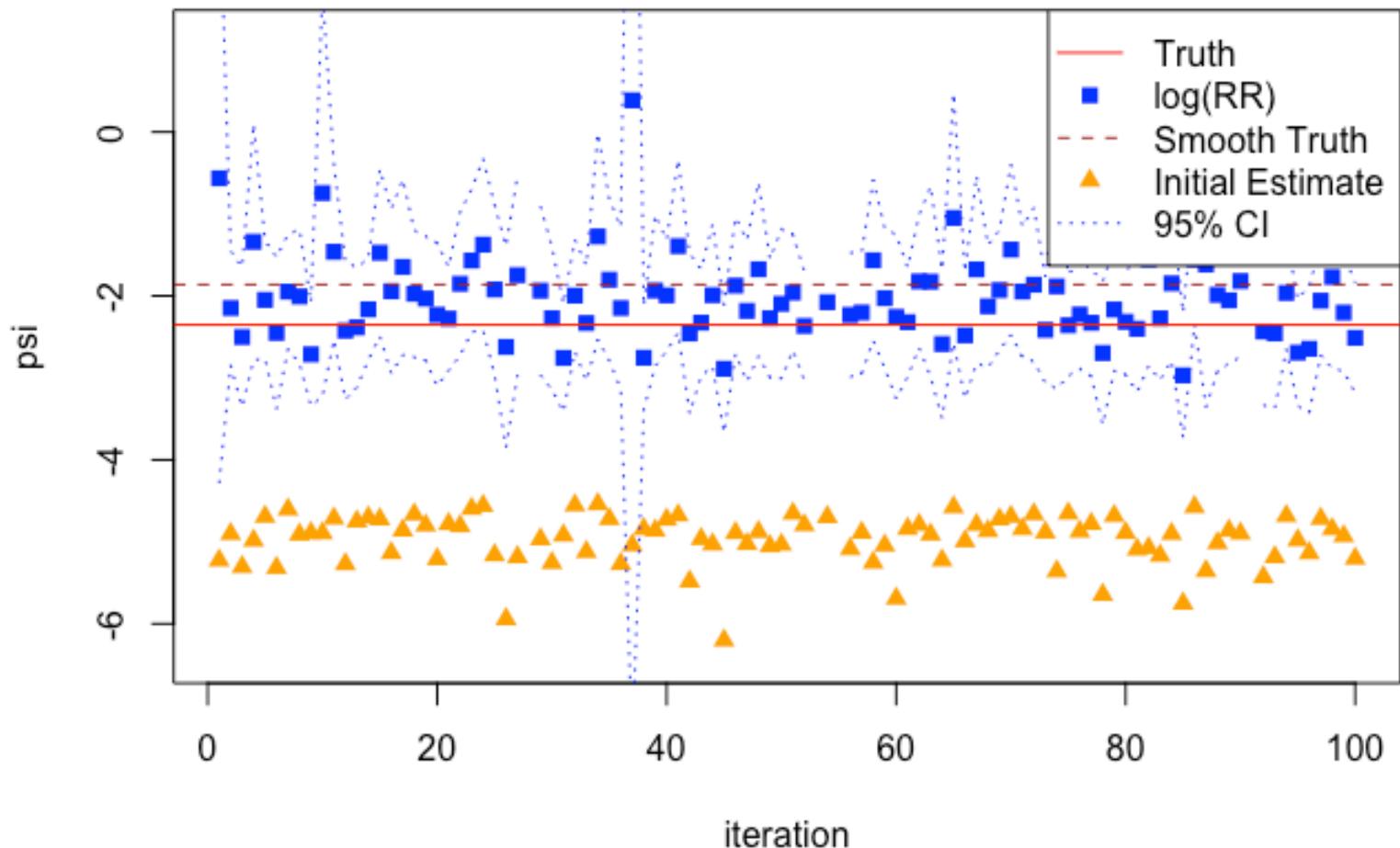
s1=0.4 Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=1



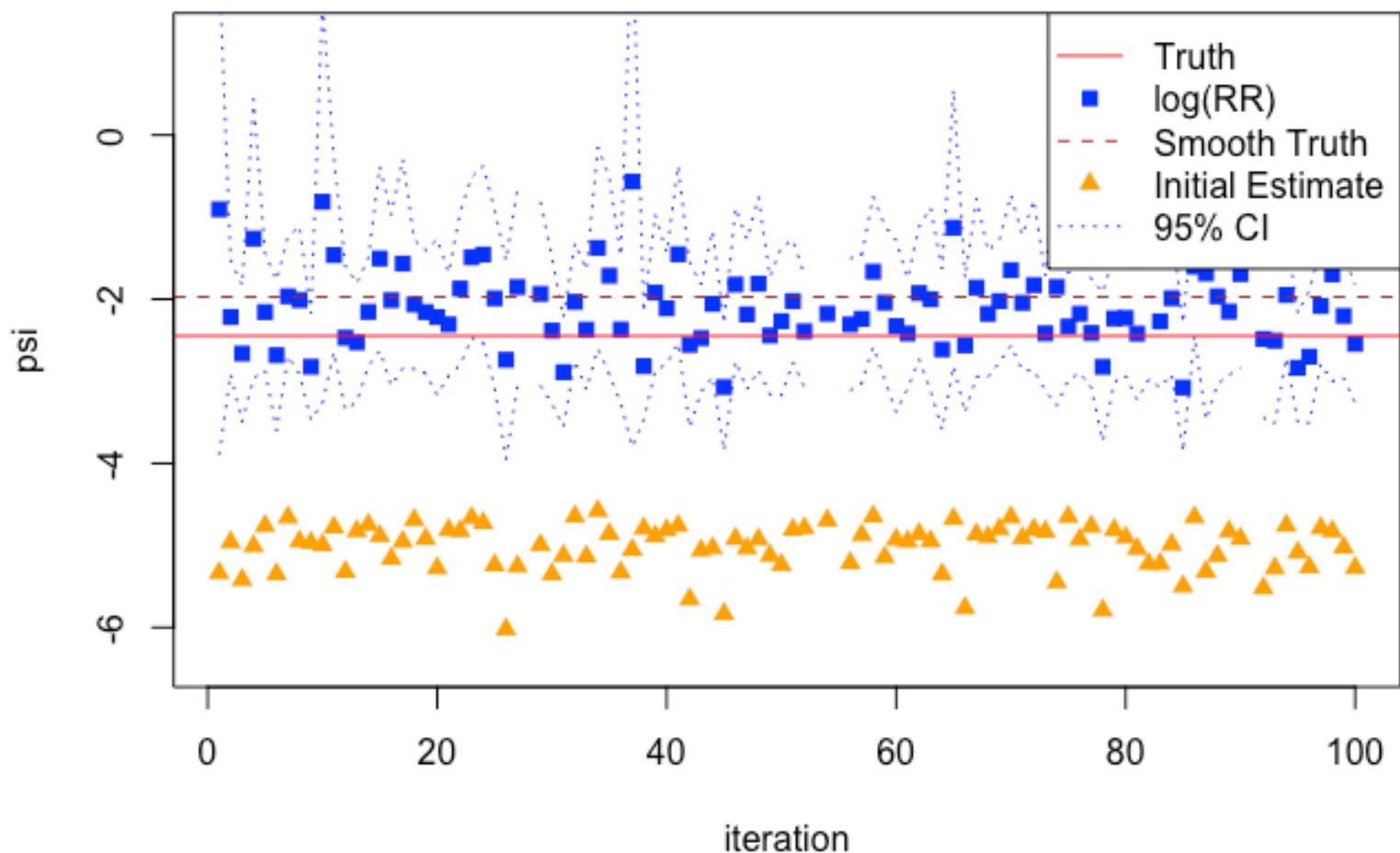
s1=0.5 Alternative case for $\text{cor}(S1, W)=0.75$, crossover rate=1, sample rate=1



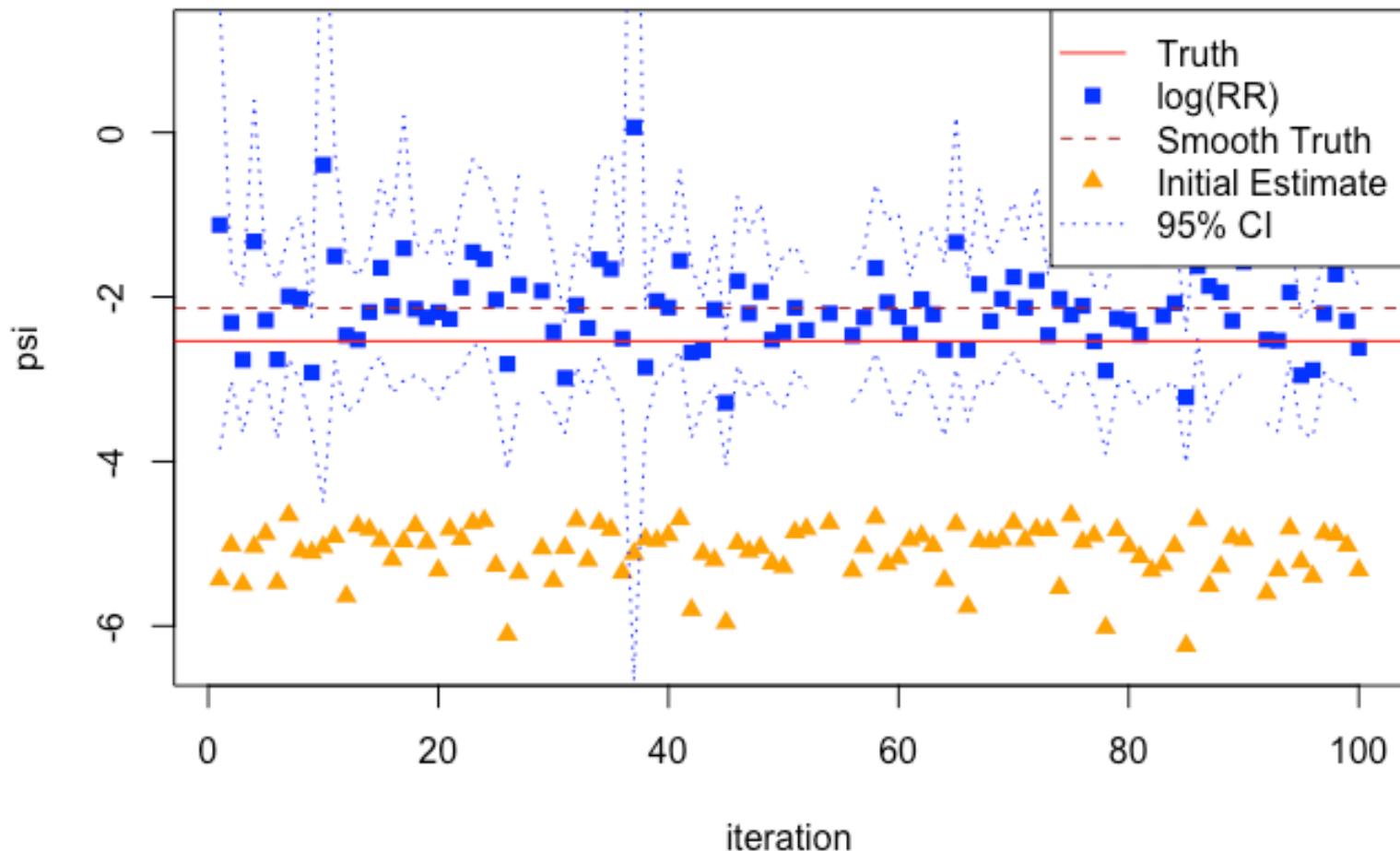
$s_1=0.6$ Alternative case for $\text{cor}(S_1, W)=0.75$, crossover rate=1, sample rate=1



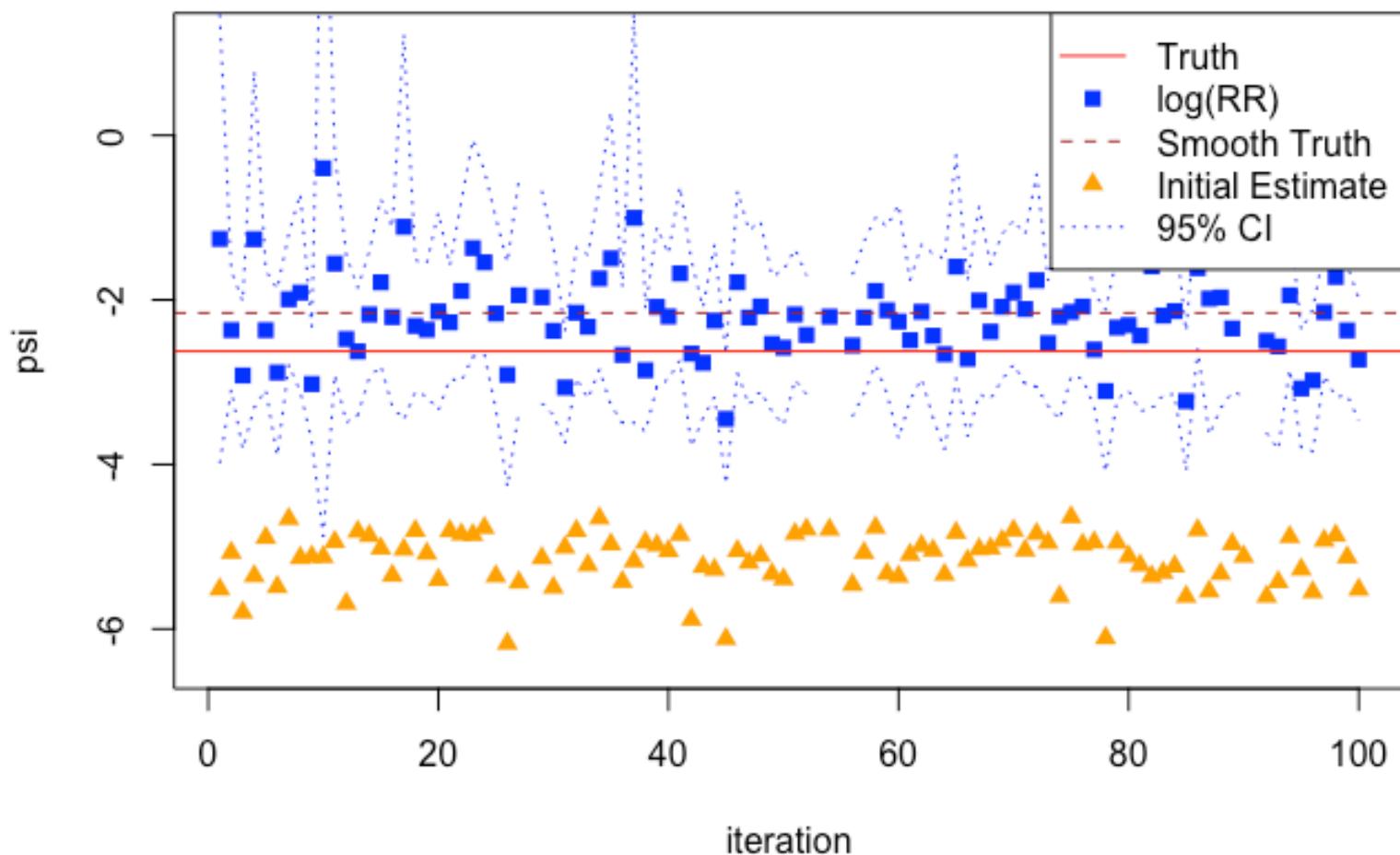
$s_1=0.7$ Alternative case for $\text{cor}(S_1, W)=0.75$, crossover rate=1, sample rate=1



$s_1=0.8$ Alternative case for $\text{cor}(S_1, W)=0.75$, crossover rate=1, sample rate=1



$s_1=0.9$ Alternative case for $\text{cor}(S_1, W)=0.75$, crossover rate=1, sample rate=1



s1=1 Alternative case for $\text{cor}(S1, W) = 0.75$, crossover rate=1, sample rate=1

